Volume 162 No. 26

Oil, Paint and Drug Reporter

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NSRB Urges Adoption Of 17 Paley Proposals

The National Security Resources Board last week urged the adoption for immediate action of some seventeen recommendations of the so-called Paley report, ranging from a unilateral lowering of American tariffs on strategic materials imports to a stepped up program of basic research by greatly increasing the appropriations of the National Science Foundation for this purpose.

In a report to the President on actions deemed appropriate to be taken with respect to the seventy-eight recommendations made by the President's Material Policy Commission (Paley report), the NSRB said that these seventeen recommendations are key recommendations involving either the establishment of new basic policies or the strengthening of existing basic policies. The Paley report is a program for developing and utilizing our material resources in a way that will provide assurance that requirements of the next generation can be met.

The resources board arrived at its conclusion as to which recommendations should be acted upon first on the basis of a review of the formal recommendations in the Paley report by twenty-two government agencies particularly concerned with various phases of the Paley report. In many instances, the government agencies were split as to the advisability of adopting the Paley recommendations, and the resources board attempted then to make a compromise recommendation to the President.

Percentage Depletion Approved

An example was in the case of percentage depletion allowances contained in the revenue law with respect to computing taxes in mining operations. The Paley report recommended that percentage depletion be retained because of its strong inducement to risk capital to enter the mineral industries, but that the rates now provided in the Internal Revenue Code be raised no further.

The four departments or agencies that report on this recommendation were in wide disagreement. The Defense Materials Procurement Agency concurred fully; the Defense Production Administration concurred generally; the Department of the Interior proposed further study; and the Treasury Department disagreed strongly. In view of this extreme difference of opinion, the NSRB recommended to the President that a special commission be appointed to make a comprehensive study of a percentage depletion as one of the

—Continued on page 73

Atlas Loses in Bid to Offer New Bread Standards Data

Atlas Powder Company, Wilmington, Del., said December 23 that it is studying the opinion of the United States Court of Appeals in Philadelphia, which ruled against the company's petition to reopen the federal bread standards to take additional evidence concerning "Myrj 45," a bread emulsifier manufactured by Atlas.

The company will announce its future steps as soon as they have been determined. Meanwhile, the stay granted by the Court of Appeals last June, which postponed the effective date of those sections of the Federal Security Administrator's bread order excluding "Myrj 45," will remain in effect at least until January 6, the company said.

Atlas has contended that the FSA order illegally and unfairly discriminates against its products by failing to apply the same criteria to competing emulsifiers, which are permitted tentatively in the bread standards.

Fatty Acid Production Reported Lower in Nov.

Fatty acid production totaled 32,047,000 pounds in November, which was below the October level of 33,080,000, according to figures released by the fatty acid division of the Association of American Soap and Glycerine Producers.

Shipments declined from 37,491,000 pounds in October to 32,433,000 pounds in November. Total stocks at the end of November were 38,189,000 pounds, compared with 37,047,000 pounds at the end of October.

FDA Amends Antibiotics Certification Regulations

Several amendments to regulations covering the certification of antibiotic products were announced last week by the Federal Food and Drug Administration.

The amendments provide for an expiration date of thirty-six months for penicillin troches prepared from crystalline, laevoephenamine penicillin G, or crystalline penicillin O if the person who requests certification has proved his drug to be stable for such period of time.

They also provide for an expiration date of eighteen months for aqueous suspensions of procaine penicillin if the person who requests certification has proved his drug stable for such period of time, and for an expiration date of eighteen months for the drugs diethylaminoethyl ester pencillin G hydriodide, and diethylaminoethyl ester penicillin G hydrodide for aqueous injection.

Saline Water Research Unit Set Up by Dept. of Interior

A saline water conversion committee, composed of representatives of the Geological Survey, Bureau of Mines, Bureau of Reclamation and the division of water and power, has been set up within the Department of the Interior to assist in the development and review of the saline water research program authorized by congress last session.

The research program also has been made a direct responsibility of the secretary of the interior by the appointment of Goodrich W. Lineweaver as the secretary's representative on the committee, and his designation as chairman. Mr. Lineweaver will operate as part of the office of the secretary and will develop and execute the program in cooperation with the Bureau of Mines, Geological Survey, and the Bureau of Reclamation.

US Weighing Bolivian Tin Offer of One-Year Accord

Consideration is being given by the United States government to a proposal of Bolivia for a one-year contract for the purchase of Bolivian tin concentrates, it was disclosed last week by the Department of State. The department described the proposal as one which was made "recently," but gave no further details.

That Bolivia had made overtures to this government looking to the restoration of contractural relations covering purchase and sale of tin by the two countries, was made known by the department in a statement seeking to answer numerous inquiries from the press concerning the purchase of Bolivian tin concentrates. In the statement, the department defined the attitude of the United States government as follows:—

Several Purchases Made

"First, the United States has made several spot purchases of Bolivian tin concentrates since the MNR regime assumed control of the Bolivian government in April, 1952. The last purchase, made in September, 1952, from the Banco Minero, an agency of the Bolivian government, covered all Bolivian production through September, 1952, which had not already been contracted for sale. Delivery of ores in South American ports under this arrangement was not completed until the end of November.

"Second, since September, 1952, the Bolivian government has not offered for spot sale to the United State any tin concentrates whatever.

Ready to Consider Offers

"Third, the United States has informed the Bolivian government on several occasions that the Reconstruction Finance Corporation is prepared to consider offers from Bolivia to sell tin concentrates on substantially the same basis as in the earlier purchase agreements. At no time has the United States refused to buy Bolivian tin.

"Fourth, recently the Bolivian ambassador to the United States informed the department that the Bolivian government wished to conclude a one-year contract for the sale of Bolivian tin concentrates. The interested agencies of the United States government are currently considering the feasibility of such an arrangement.

Chemicals Supply Eases Further

Issue No. 10 of the periodic report of the Defense Production Administration on basic materials and alternates was made public last week, showing a continued progress in supplies of chemical and other products.

The report showed that thirteen materials have been removed from the "most critical" category over the past year, leaving but eleven in this category, of which ten are metals. They are:—Titanium; cobalt; columbium; molybdenum; nickel; tantalum; heavy castings weighing over 3,000 pounds, of gray iron, gray iron alloy and carbon steel; nickel bearing stainless steel; and diamond bort.

The "list of basic materials and alternates" which is compiled bi-monthly by DPA's conservation division, classifies over 300 principal materials according to whether the supply is either "most critical;" in short supply (Group 1); in approximate balance with defense and essential civilian demand (Group 2); or fair to good (Group 3). The purpose of the list is to suggest and encourage the use of freer materials. Materials are eliminated from the listing when they reach plentiful supply.

Metals Almost Static

Issue No. 10 reports that metals are almost static with a slight easing among ferro alloys; chemicals continue to ease, but more slowly; a number of miscellaneous items have been removed from Group 3 because they are now in ample supply; and lumber is essentially unchanged.

Three chemicals, acetylene, calcium carbide and oxygen were removed from Group 1 to Group 2. Eight other chemicals, carbon disulphide, chrome green, chrome molybdate orange, chrome orange, chrome yellow, lead chromate, pine oil and titanium pigments were moved from Group 2 to Group 3. Increased demand pushed polyethylene and polyethylene resins from Group 3 to Group 2.

Eight chemicals have been removed from the list because supplies are now adequate. They are:—Carbon tetrachloride, charcoal, dihydroxydroxydichlorodiphenylmethane, methylene, chloride, n-octyl alcohol, sebacic acid (refined), sulphadiazine and sulphathiazole.

Manganese in Group 1

Under metals, manganese (electrolytic metal) is added to Group 1 and heavy forgings in Group 1 are identified as those weighing over 10,000 pounds. Ternplate and cold heading quality of drawn wire are added to Group 2. Tungsten, formerly in Group 1, is now in Group 2, while magnesium and residual pig iron go from Group 2 to Group 3.

Because their supply is now ample, with no threat of shortages, tellurium, osmium, rhodium, ruthenium, zirconium, nails and netting, all previously in Group 3, have been dropped from the list.

Under miscellaneous, wood pulp goes

—Continued on page 74

And a Prosperous New Year

Sulphur World Quota System Is Continued

Although controls over the uses of sulphur in the United States have been revoked by the National Production Authority, the International Materials conference last week decided to continue world allocations of the material at least for the first quarter of 1953 on the chance that the improved supply situation may prove to be only temporary.

The agency said that a substantial improvement has taken place in the sulphur position over the last six months of 1952, which has been brought about both by an increase in production, and by some reduction in demand resulting from the fact that the level of industrial activity in many countries was lower than previously anticipated and from the increased use of other sulphur-bearing materials, and various conservation measures. The export availabilities and import requirements for the first quarter of 1953 are approximately in balance, it was stated.

The sulphur committee discussed the possible termination of international allocations, the announcement said, but considered that the improvement in the supply position might be only of a temporary nature. Furthermore, the committee recognized that in many cases the requirements figures for individual countries were based on a continuation of restrictions on the use of sulphur as such, and thus might not reflect a true estimate of world demand.

View Accepted Unanimously

The view of the committee was unanimously accepted by the seventeen member governments. They are:—Australia, Belgium (representing Benelux), Brazil, Canada, France, Germany, India, Italy, Japan, Mexico, New Zealand, Norway, Sweden, Switzerland, Union of South Africa, the United Kingdom and the United States.

The committee agreed to make arrangements whereby domestic users in the United States and in other countries may purchase any sulphur allocated to other countries participating in the IMC and not used by any such participating country.

As on previous occasions, the committee dealt only with crude sulphur and did not allocate the relatively small quantities of refined sulphur which enter into international trade. The committee expects, however, that trade in refined sulphur will continue to follow the normal pattern.

Estimated 1,675,100 Long Tons

The committee estimated the total amount of sulphur to be under allocation during the first quarter of 1,675,100 long tons. Of this amount the United States was allotted 1,190,800 tons, exclusive of

—Continued on page 73

Copper Ceilings Rise, Suspension Are Denied

A request of the copper industry for suspension of price ceilings or an increase in the present ceiling of 24½ cents a pound on domestic copper was rejected December 23 by Michael DiSalle, administrator of the Economic Stabilization Agency.

"In view of the continuing critical shortage of this basic defense material, suspension of ceilings is out of the question," Mr. DiSalle declared, "And in view of the favorable current earnings position of the industry, no increase in ceiling prices is justified."

Mr. DiSalle said a recent decline in the flow of domestic refined copper and copper scrap, as compared to earlier in the year, has been attributed to uncertainties over pricing policies and an industry hope that the metal would be decontrolled or a price increase granted. "If that is the reason," he said, "then this should put an end to any anticipatory withholding of supplies from the market. We are not suspending the controls or granting a price increase."

Mr. DiSalle said he understood that tax considerations, including the possibility of lower tax rates in 1953, may also have had some effect on the flow of copper and copper scrap. In either event, he added, an increase in supplies should become available after the first of the year.

The decision to deny a price increase for domestic refined copper and copper scrap applies also to copper alloy and brass mill scrap, Mr. DiSalle declared.

WHO Committee Picks Additional Drug Names

The Combined Trade-Mark Bureau of the American Drug Manufacturers' Association and the American Pharmaceutical Association has released a new series of international non-proprietary drug names, which have been tentatively approved by the World Health Organization's subcommittee on international non-proprietary names. The names are as follows:—

Amoxecaine (WHO No. 182)—N,N'-triethylethylenediamine - N - betaethylpara-aminobenzoate.

Aurothioglycenide (WHO No. 186)—Auromercaptoacetanilide.

Benzoestrol (WHO No. 162)—3-Ethyl-2,4-bis (parahydroxyphenyl) hexane.

Benzypyrinium bromide (WHO No. 134)—1-Benzyl-3-(dimethylcarbamyloxy) pyridinium bromide.

Bibrocathol (WHO No. 79)—Bismuth derivative of tetrabromopyrocatechol.

Camphotamide (WHO No. 17)—Camphosulphonyl - N-methylpyridine-B-diethyl-carbonamide.

Carbromal (WHO No. 53)—D,-bromo-alpha-ethylbutyrlurea.

Chlorazodin (WHO No. 114)—Alpha, alphaazobia (chloroformamidine).

Chloropyramine (WHO No. 179)—N-beta-dimethylaminoethyl - N-p-chlorobenzyl-2-aminopyridine.

Corbadrine (WHO No. 50)—1-(3,4-Dihydroxyphenyl) 2-amino-propanol hydrochloride.

Cyclizinium chloride (WHO No. 176)—N-diphenylmethyl-N-methylpiperazinium dichloride.

Cyclopentamonium chloride (WHO No. 135)—N,alpha - dimethylcyclopentylethyl-ammonium chloride.

Dibemethonium chloride (WHO No. 181)—dibenzylmethylammonium chloride.

Dimenhydrinate (WHO No. 172)—2-(Diphenylmethoxy) - N,N - dimethyl - ethylammonium 8-chlorotheophyllinate.

Dimoxylinium phosphate (WHO No. 208)—6,7-Dimethoxy-1-(4-ethoxy-3- methoxybenzyl) 3-methyl isoquinolinium phosphate.

Diphenan (WHO No. 48)—4-Benzylphenylcarbamate.

Diperodon hydrochloride (WHO No. 109) 3-(1-Piperidyl) 1,2-propanediol dicarbanilate hydrochloride.

Dixanthogen (WHO No. 84)—Diethyldixanthogen.

Furostilboestrol (WHO No. 194)—Diethylstilboestrol furoate.

Furthrethonium iodide (WHO No. 133)—Furfuryltrimethylammonium iodide.

Homatropine methylbromide (WHO No. 131).

Hydrocortisone (WHO No. 38)—17,Hydroxycorticosterone.

Mannitol hexanitrate (WHO No. 143).

Menadiol sodium sulphate (WHO No. 89)—

—*Continued on page 74*

Acetic Acid, Acetone Among Major Tax Certificate Items

Certificates of necessity were issued during the period Dec. 4-17 by the Defense Production Administration permitting accelerated tax amortization of several production expansion projects in the area of the chemical industry, it was announced last week. They were:—

Acetic acid, acetone and methanol—Celanese Corporation of America, Dumas, Tex., $14,000,000 certified and 45 percent allowed.

Chemical equipment—The Pfaudler Company, Rochester, N. Y., $44,234 certified and 40 percent allowed; Sunlight Chemical Corporation, Phillipsdale, R. I., $5,200 certified and 70 percent allowed.

Oxygen and acetylene—Sierra Oxygen Company, Reno, Nev., $102,457 certified and 40 percent allowed.

Phosphatic fertilizers—F. S. Royster Guano Company, Bartow, Fla., $3,031,102 certified and 45 percent allowed; I. P. Thomas & Son Company, Paulsboro, N. J., $785,000 certified and 45 percent allowed.

Styrene resins for plastic materials—Koppers Company, Inc., Potter Township, Pa., $1,664,482 certified and 45 percent allowed.

Chlorophyll Industry Group Formed to Codify Standards

A Chlorophyll Industry Committee to codify standards in processing and application, encourage research, and disseminate information about chlorophyll, has been set up by a group of processor representatives. The formal establishment of the committee follows several months of conferences by leading figures in the industry. The committee will intensify and enlarge projects already undertaken by individual members of the industry, it was announced.

Among the active participants in the formation of the group were:—M. M. Ricketts, American Chlorophyll Division of Strong, Cobb & Company; Walter H. Kenlan, National Chlorophyll & Chemical Company; Donald G. Carpenter, chlorophyll division of Archer-Daniels-Midland Company. Other producers are represented in the committee, and plans call for the participation of leading users.

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Copra, Coconut Exports From Philippines Lower

Philippine exports of copra and coconut oil during November amounted to 52,866 and 5,525 long tons, respectively, according to the Office of Foreign Agricultural Relations.

Copra shipments were down 18 percent from October and were the smallest since August; coconut oil shipments were 30 percent less than the previous month and represented the smallest monthly volume of the year. On a copra basis, January-November exports totaled 718,050 tons or roughly 10 percent less than the comparable figure of 816,640 tons for 1951.

November copra shipments were consigned as follows:—United States, 25,650 tons (Pacific, 16,008; Atlantic, 6,711; Gulf, 2,931); Canada, 1,000; Belgium, 3,000; Denmark, 1,900; Germany, 2,500; Italy, 1,000; Netherlands, 9,797; Norway, 2,000; Sweden, 1,720; Japan, 299; Israel, 400, and Europe, unspecified, 3,600 tons. Coconut oil exports went to:—United States, 5,105 tons (Atlantic) and Belgium, 420 tons.

Columbia-Southern Advances For Theis, Morgan Reported

The Columbia-Southern Chemical Corporation, a subsidiary of the Pittsburgh Plate Glass Company, has announced the appointment of Francis W. Theis as director of development for the Barberton, Ohio, plant, and the appointment of Arthur L. Morgan as chief purchasing agent for the Natrium plant at New Martinsville, W. Va.

Mr. Theis succeeds F. R. Elmore, who will serve as a consultant to the Columbia-Southern plant at Corpus Christi, Tex. Associated with the firm since 1941, Mr. Theis served in various engineering capacities until 1948, when he was appointed supervisor of development. During the past three years he has served as assistant director of development.

Mr. Morgan will be responsible for all purchasing functions, including expediting and priorities. Associated with the Natrium plant's purchasing department since 1948, Mr. Morgan has served as coordinator of purchasing, expediting and priorities during the past year.

Marine Chemical Field Entered by Fine Organics

Fine Organics, Inc., New York, has announced its entry into the marine chemical field with the appointment of George W. Mikkelsen as director of its marine chemical department.

Fine Organics has available for immediate use for the trade its line of "Safe-Tee Solvents," including its "Marine FO-128S Safety Solvent" for cleaning electric motors as a replacement for carbon tetrachloride; its "Marine FO-158," a solvent emulsion cleaner for oil tanks and bilges and "Marine FO-159," a solvent for cleaning fuel oil preheaters and oil coolers.

Food Machinery Names Bretschger Vice-President

Dr. Max E. Bretschger, head of the Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y., has been elected a vice-president of the Food Machinery & Chemical Corporation, the parent concern.

Dr. Bretschger's election followed his recent promotion to president of Buffalo Electro-Chemical, succeeding the late Charles A. Buerk (OPD, 12/1/52). Prior to that time, Mr. Bretschger was vice-president of the Buffalo company.

Int. Minerals Appoints Buchanan to Amino Post

Dr. Ben F. Buchanan has been appointed manager of the pharmaceutical department of the amino products division of the International Minerals & Chemical Corporation, Chicago, according to an announcement by J. R. T. Bishop, vice-president in charge of the division.

Hercules Powder Names Huxster to Manager's Post

Frederick G. Huxster has been named manager of chemical operations for the explosives department of the Hercules Powder Company, Wilmington, Del.

Mr. Huxster succeeds J. Leroy Bennett, who will retire early next year. Pending his retirement, Mr. Bennett will act in a consulting capacity.

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Price Index Down Again

The trend of the OPD price index last week continued downward. The index declined 0.09 point, reflecting the weakness in most markets. The oils, fats and waxes market registered the greatest index decline. Prominent among items advanced in this market were copra, grease, lard and coconut, corn and cottonseed oils. Reductions included peanut and tung oils as well as soybean meal. The essential oils market trended downward last week, with no price advances noted. Reductions in this market included amyl salicylate, benzyl benzoate and bergamot, caraway, eucalyptus and petitgrain oils. Also among markets registering downward trends were the drugs and fine chemicals and agricultural chemicals markets. Price changes in the former included an advance in refined glycerin and a decline in sulphaguanidin, USP, while dried blood, hoof meal and toxaphene were reduced in the latter market.

The botanicals market held weaker with reductions in a number of items, the more prominent of which were copaiba balsam, rhattoon, Jamaica ginger, Spanish saffron and Peruvian marjoram. Advances in this market included Peru balsam and Malabar black pepper. Lead metal was advanced in the heavy chemicals market. This advance was reflected in the protective coatings materials section with advances in red lead, litharge and orange mineral. Also advanced in this market were lead monosilicate and red, vermilion quicksilver.

The petroleum derivatives, coal chemical and textile and leather chemicals market were without change.

Except for sixteen changes in botanicals listed on page 59, price changes during the past week were as follows (the numbers in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Copra, $12.50 per ton (69).
Glycerin, refined, BP, 98%, 5½c. per lb. (49).
  other grades, 5c. per lb.
Grease, brown, ½c. per lb. (69).
  House, ½c. per lb.
  White, choice, ½c. per lb.
  Yellow, ½c. per lb.
Lard, ½c. per lb. (69).
Lead metal, ¼c. per lb. (36).
  Monosilicate, 0.24c. per lb. (63).
  Red, 95%, ¼c. per lb. (63).
    97%, ¼c. per lb.
    98%, ¼c. per lb.
Litharge, ¼c. per lb. (63).
Oil, coconut, crude, ½c. per lb. (69).
  Corn, crude, ½c. per lb. (69).
    ref., ¾c. per lb.
  Cottonseed, crude, ¼c. per lb. (69).
Oleostearin, ½c. per lb. (69).
Orange mineral, ¼c. per lb. (63).
Red, vermilion, quicksilver, 4c. per lb. (63).
Tallow, extra, ¼c. per lb. (69).
  Fancy, ¼c. per lb.
  Special, ¼c. per lb.

Prices Reduced

Amyl salicylate, 2c. per lb. (61).
Benzyl benzoate, 8c. per lb. (61).
Blood, dried, 25c. per unit of ammonia (42).
Hoof meal, 25c. per unit of ammonia (42).
Oil, bergamot, $1 per lb. (61).
  Bois de rose, 15c. per lb. (61).
  Caraway, 25c. per lb. (61).
  Eucalyptus, 10c. per lb. (61).
  Peanut, crude, ½c. per lb. (69).
    ref., ¾c. per lb.
  Tung, dom., ¼c. per lb. (69).
    imp., ¾c. per lb.
  Petitgrain, 15c. per lb. (61).
Soybean meal, 50c. per ton (69).
Sulphaguanidin, USP, 50c. per lb. (49).
Toxaphene, 6c. per lb. (42).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

December 26, 1952	December 19, 1952	December 28, 1951
108.71	108.80	114.81

WHO's Chisholm Refuses To Accept New Contract

Dr. Brock Chisholm, director-general of the World Health Organization, has informed the organization that he will not accept renewal of his contract which expires July 21. The fifth health assembly in May of this year had unanimously offered Dr. Chisholm a three-year renewal of his contract.

A Canadian by birth, Dr. Chisholm served as deputy minister of health of Canada from 1944 until 1946 when he was elected executive secretary of the WHO interim commission. He became WHO's first director-general in 1948. The executive board of WHO is scheduled to meet in Geneva January 12 to consider nominations for a successor to be submitted at the sixth health assembly which will convene in Geneva May 5, 1953.

Beryl Ore Expansion Goal Set at 4,200 Short Tons

The small business share of the expansion goal for increased production of beryl ore was set at 50 percent of the authorized expansion of production, it was announced December 26 by the Small Defense Plants Administration. A production expansion goal of 4,200 short tons annually has been set for this mineral.

Mediterranean Olive Oil Output Seen Halving '51

Olive oil production from the 1952 olive crop in the Mediterranean basin is forecast by the Office of Foreign Agricultural Relations at 780,000 short tons, or less than one-half the record 1,600,000 tons produced from the 1951 crop.

This volume of oil also would represent about 125,000 tons less than the prewar average but would be substantially above the short crops of 1948 and 1950. The estimates represent the total oil pressed, including allowances made for consumption by growers in countries reporting only commercial production, it was stated.

The sharp reduction from last year's abundant oil outturn is explained by the fact that this year of normal low production in the two-year cycle characteristic of olive production was also one of unfavorable weather and excessive insect infestation.

65 Percent Decrease Seen

The most significant decrease from last year are expected in Italy, Spain, Portugal and Greece where production likely will be down from 50 to 65 percent. These four countries normally account for around 80 percent of the total Mediterranean basin olive oil production. In 1951, however, this area was the origin of almost 90 percent of the oil produced. Spain's output this season is estimated at 300,000 tons or about 40 percent of the total in contrast to 770,000 tons or almost one-half the total oil from the 1951 crop. Sizable decreases also are expected in French Morocco, Algeria, France and some smaller producing countries. In contrast, production reportedly is up 50 percent in Tunisia and 25 percent in Turkey.

Heavy stocks from the record crop of 1951, probably exceeding 500,000 tons as of November 1, 1952, insure a sufficient supply of olive oil for local requirements

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Bakelite Sees Only Brief Delays as Explosion Result

Only shipments of standard phenolic holding materials from the Bound Brook, N. J., plant of the Bakelite Company, a division of the Union Carbide & Carbon Corporation, will be briefly impaired by the dust explosion there, December 22, according to George C. Miller, vice-president in charge of sales.

Production of standard phenolic molding materials is expected to be resumed in from three to six weeks. In view of this estimate and the supply of this material on hand, it is believed that shipments to most Bakelite customers will be back to normal in two to three weeks. Production of made-to-order phenolic molding materials, all phenolic resins and varnishes, all polystyrene, vinyl and polyethylene compounding and shipments will remain normal, it was said.

P.A.'s-Eye View of Business

Composite view, December 28, of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents,

The post-steel strike phase of the boom has petered out, leaving industrial business leveling out at the high peak of the year. Looking ahead, 55 percent of the purchasing executives reporting see no abatement in the general business trend for the first six months of 1953; 25 percent see good business only through the first quarter, and 20 percent, with some reservations concerning world conditions, estimate 1953 will average about the same level as 1952.

The reports offer little comment on a possible decline in defense expenditures, with more attention centered on the helpful possibilities of tax relief and removal of controls. This optimistic attitude is coupled with expressions of more confidence in government, the decline of inflation, and the steady movement of business into normal supply-demand relationships.

New home construction, which affects much of the industrial economy, was given special consideration in the reports this month. There are still boom areas and also a few distress spots for such building. As a whole, the demand has slowed down more in the East and South than in the West. Lower priced houses are still moving well. In all sections, the more costly units and older homes are reported more difficult to sell.

In December, industrial order backlogs dropped a little, but remain substantial. Production was just a shade lower, as the holiday rush subsided. Prices are somewhat static, with some tendency toward weakness in the highly competitive items. Inventories are in better relation to production and in better balance than at any time since the war, and are still declining as material scarcities disappear and pipe lines fill. Employment is high after seasonal adjustments. Buying policy continues conservative in line with availability, inventory policy, and the more pronounced trend to buyers' markets. Not a bad ending for 1952, when compared with conditions that looked rather dismal in January and June.

Commodity Prices

On the principle commodities they buy, purchasing agents report little change in prices. The back of the post-steel strike upswing is broken and industrial materials generally are holding steady, with somewhat of a trend to decline rather than to advance. Keen competition to maintain high level production is developing a buyers' market in many lines. Stronger competition between materials is forecast by many buyers, as new production capacity enters the market.

Inventories

Industry winds up the year with inventories in better shape than at any time since the war. The trend to lower stocks continues as the market offer increased availability of supplies. Inventory managers are putting more emphasis on turnover and less on protection of production schedules, which is good evidence of the conservative view of the future.

Employment

Industrial employment remains high in all areas. The change, all on the down side this month, is not large. Part-time workers and overtime to rush out holiday goods have been cut back. No serious unemployment is apparent in any section of the country. Skilled mechanics and office

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Little Appoints Dr. Bass As Industrial Consultant

Dr. Lawrence W. Bass has recently become associated with Arthur D. Little, Inc., Cambridge, Mass., according to an announcement by Earl P. Stevenson, president. In making the announcement, Dr.

Dr. Lawrence W. Bass

Stevenson added that Dr. Bass will be primarily concerned with the increasing client demand on the Little staff for consultation on the effective organization and management of industrial research activities.

Prior to his association with Little, Dr. Bass had most recently been vice-president in charge of research for the U. S. Industrial Chemicals Company, where he had responsibility for all research and development work on chemicals, insecticides, and synthetic resins. Additional previous experience included supervising the development of new products and processes in the dairy and food field, as director of research for the Borden Company from 1931 to 1936, and the direction of numerous research projects on plastics, textiles, and chemicals, as assistant director of Mellon Institute, from 1937 to 1942. As director of the New England Industrial Research Foundation, during the following two years, Dr. Bass acted in an advisory capacity for numerous companies and trade groups on development of new business, and from 1944 to 1948 he served as director of chemical research for the Air Reduction Company.

Celanese Names Stevens Chemical Unit Sales Mgr.

John W. Stevens and Robert W. Kampschulte have been named general sales manager and assistant general sales manager, respectively, of the chemical division of Celanese Corporation of America, New York. Both have had similar responsibilities in the past, but the new titles have been established in keeping with the increased scope and diversity of the division's activities.

Also appointed were William C. Goodwine as sales manager in charge of plasticizers, A. R. Cockran as manager of plant operations of the chemical division, and William P. Orr as assistant to the division's manager of plant operations.

K. D. Bowen, who had previously been manager of plant operations for the chemical division, has been promoted to the new position of director of manufacturing coordination for the entire company.

Cyanamid Elects Wattles

Gurdon Wattles has been elected a director of the American Cyanamid Company, New York, the company has announced.

Trademark Coverage Strengthened by Court

The Supreme Court of the United States held last week that the Lanham trademark law is broad enough to cover the acts of American nationals in foreign countries which violate the rights of registered trademark owners here.

The decision was rendered in a case involving "Bulova" watches and gave a more far-reaching application of the Lanham Act than heretofore was believed possible. It may prove of significance in the drug and toiletries fields, and other lines of business plagued with trademark troubles, interpreters noted.

The facts of the case were these:—Sidney Steele, a citizen of the United States residing in San Antonio, Tex., conducted a watch business in Mexico City where he imported and assembled Swiss watch movements which he sold under the name "Bulova." The Bulova Watch Company sued for an injunction and monetary relief on the grounds Steele violated the Lanham act. Steele contended the United States courts were without jurisdiction to judge the case since all the acts were done in Mexico.

Six-to-Two Opinion

In the six-to-two opinion, written by Justice Tom Clark, the supreme court said that the Lanham act confers broad jurisdictional powers upon the courts of the United States. It was noted that the statute's expressed intent is to "regulate commerce within the control of Congress by making actionable the deceptive and misleading use of marks in such commerce; to protect registered marks used in such commerce from interference by state, or territorial legislation; to protect persons engaged in such commerce against unfair competition; to prevent fraud and deception in such commerce by the use of reproductions, copies, counterfeits, or colorable imitations of registered marks; and to provide rights and remedies stipulated by treaties and conventions respecting trademarks, trade names, and unfair competition entered into between the United States and foreign nations."

Justice Clark noted that "commerce" is defined in the law as "all commerce which may lawfully be regulated by congress," and added that congress, in prescribing standards of conduct for American citizens, may project the impact of its laws beyond the territorial boundaries of the United States.

Agree With Court of Appeals

"On the facts of the record," the majority decision stated, "we agree with the Court of Appeals that petitioner's activities, when viewed as a whole, fall within the jurisdictional scope of the Lanham act. This court has often stated that the legislation of congress will not extend beyond the boundaries of the United States un-

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Petrochemical Field Entry Announced by Unexcelled

The Unexcelled Chemical Corporation, New York, has entered the petrochemical and natural gas fields through the company's acquisition of exclusive rights to a chemical process which is said to remove moisture with a greater degree of efficiency than any present methods, it has been announced by Carlton B. Waller, president.

This new product, a dessicant, also will contribute considerably to the elimination of the explosive hazard caused by gasoline pockets which form in transmission lines, Mr. Waller said. The Unexcelled dessicant is two-thirds lighter in weight than present materials and will eliminate or minimize costly operational space factors, it was said.

In addition to its application in the natural gas and petrochemical fields, Unexcelled expects a broad usage of this new product in the air-conditioning, dehumidifying and appliance fields.

Potassium Sulphate Output Rise Set by International

International Minerals & Chemical Corporation, Chicago, plans a substantial addition to its sulphate of potash facilities at Carlsbad, N. M., A. Norman Into, vice-president in charge of International's potash division, has announced.

"The site of the new plant has been laid out already and construction will start without delay, probably within the next few months," Mr. Into stated. "The plant will be in production around the beginning of 1954. The added production resulting from this expansion will amount to approximately 35,000 tons of sulphate of potash a year," he added.

Washington Talks It Over

By Ralph L. Cherry

Secretary of Commerce Charles W. Sawyer has issued a report titled, "Markets After the Defense Expansion," which seeks to give business and industry some insight into the future of the American economy a few years hence. Essentially, the report finds the outlook to be this:—"The United States will continue to enjoy a measure of prosperity so long as military spending keeps up and private investment continues strong.

Mr. Sawyer said that this conclusion was reached by economists in and out of the department after six months work. He described the report as the most authentic and detailed appraisal of business prospects for the next few years which has been presented to the American businessman. He hoped that the report would have a certain psychological value as well as factual value to business because American businessmen are just as emotional as any other group."

The facts presented by the report would indicate that the situation is still sound. The report shows that even with the decline in defense expenditures indicated for 1955, our economy should be able to take care of itself with planning and initiative from business. Among the highlights were the following:—

1. Two surveys which show that capital investment plans of American industry for the next three years are much higher than most of us had anticipated. A 2,000-firm survey showed 1953 investment programs at $26,300,000,000, only slightly below 1952's $26,900,000,000. A second survey of eighty-four large firms covering one-third of American business investments showed that even for 1954 and 1955 these leading companies are budgeting capital investments at 85 and 80 percent, respectively, of the 1952 volume.

2. On the basis of several major assumptions—available labor force and productivity, the level of defense expenditures, the continuation of present tax rates and no more than minor business fluctuations—the report suggests a potential gross national product in 1955 of $365,000,000,000 in terms of 1951 prices. This would be an increase of 8 percent over 1952. Should this gross national product be realized, disposable personal income in 1955 would be $240,000,000,000, an increase of 7 percent over 1951.

3. Defense spending seems likely to rise at a rate of $55,000,000,000 to $60,000,000,000 in 1953 and 1954. If present military goals are maintained, a reduction in defense spending will be seen in 1955 to between $50,000,000,000 and $55,000,000,000.

It seems to be pretty certain that one of the recommendations Gen. Eisenhower will make to congress will be that the reorganization act of 1949, which expires next April 1, be extended for another year. This is the law empowering the President to consolidate, eliminate and shift various government agencies subject to congressional veto.

Reorganization of the government is generally expected to be one of the major tasks of the new administration in carrying out its pledge to seek economy and efficiency in government operations. It is quickest path to possible tax reduction which now seems to be dependent primar-

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Association Meetings

American Association for the Advancement of Science, annual meeting, St. Louis, Mo., December 26-31.
American Association of Textile Technologists, annual symposium, Statler hotel, New York, February 3.
American Drug Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., April 13-16.
American Institute of Chemists; annual meeting, Philadelphia, May 12-13.
American Pharmaceutical Association, Salt Lake City, Utah, August 16-22.
American Pharmaceutical Manufacturers Association, eastern section meetings, Roosevelt hotel, New York, February 2-4; central section meetings, Edgewater Beach hotel, Chicago, February 9-11; western section meetings, Los Angeles, February 16-17; annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., March 30-April 1.
American Society for Testing Materials, Chalfonte-Haddon Hall, Atlantic City, N. J., June 29-July 3.
American Society of Hospital Pharmacists, annual meeting, Salt Lake City, Utah, August 16-22.
Association of American Soap and Glycerine Producers, annual meeting, Waldorf-Astoria hotel, New York, January 27-29.
Association of Consulting Chemists and Chemical Engineers, symposium, Belmont Plaza hotel, New York, April 21; annual meeting, Belmont Plaza hotel, New York, October 27.
Chemical Specialties Manufacturers Association, midyear meeting, Drake hotel, Chicago, May 17-19.
Commercial Chemical Development Association, annual meeting. Statler hotel, New York, March 23-24.
Compressed Gas Association, annual meeting, Waldorf-Astoria hotel, New York, January 26-27.
Drug, Chemical and Allied Trades section of the New York Board of Trade mid-winter luncheon meeting, Astor hotel, New York, January 20; annual dinner, Waldorf-Astoria hotel, New York, March 5.
Electrochemical Society, spring meeting, Statler hotel, New York, April 12-16.
Essential Oils Association, annual meeting, Savoy Plaza hotel, New York, January 9.
Federal Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., September 20-23.
International Magnesium Exposition, Washington National Guard Armory, Washington, D. C., March 31-April 2.
Manufacturing Chemists Association, air pollution abatement conference, Statler hotel, Detroit, February 26-27; joint meeting with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-13.
National Agricultural Chemicals Association, spring meeting, Jung hotel, New Orleans, La., March 11-13.
National Association of Corrosion Engineers, Sherman hotel, Chicago, March 16-20.
National Cottonseed Products Association, Ambassador hotel, Los Angeles, May 8-12.
National Sanitary Supply association, annual meeting and merchandise exposition, Conrad Hilton hotel, Chicago, March 22-25.
Oil Trades Association of New York, Waldorf-Astoria hotel, New York, January 21.
Packaging Machinery Manufacturers Institute, semi-annual meeting, Sheraton hotel, Chicago, April 18-19.
Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, March 2-6.
Plant Maintenance Conference, in conjunction with Plant Maintenance Show, Public Auditorium, Cleveland, Ohio, January 19-22.
Society of the Chemical Industry, American section, Perkin medal presentation, Waldorf-Astoria hotel, New York, January 16.
Society of Industrial Packaging and Materials Handling Engineers, exposition, technical short course and competition, Mechanics Hall, Boston, October 18-24.
Society of Plastics Engineers, annual technical conference, Statler hotel, Boston, January 21-23.
Society of the Plastics Industries of Canada, annual conference, Gen. Brock hotel, Niagara Falls, March 10-11.
Society of the Plastics Industry, reinforced plastics division conference, Shoreham hotel, Washington, D. C., February 18-20, annual meeting and conference, cruise to Bermuda, May 9-15.
Southern Paint and Varnish Production Club, annual meeting, Buena Vista hotel, Biloxi, Miss., March 18-21.
Synthetic Organic Chemical Manufacturers Association, joint meeting with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-13.
Technical Association of the Pulp and Paper Industry, New York, February 16-19.
Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 12-14.

Parenteral Drug Ass'n Elects Ushkow President

The Parenteral Drug Association has announced the election of Joseph Ushkow, of Endo Products, Inc., as president of the association for the coming year.

Other officers elected were:—Eastern vice-president, Charles H. Mann, Bristol Laboratories, Inc.; western vice-president, Arthur G. Sherman, jr., Sherman Laboratories; secretary, Dr. David M. Ashkenaz, Wyeth, Inc., and treasurer, Dr. Nello Mellini, Sandoz Pharmaceuticals. Elected to the board of directors for three-year terms were:—Paul de Haen, Ames Company, Inc.; L. James Graham, Burroughs Wellcome & Co. (USA), and Walter S. Konwiser, C. F. Kirk Company.

Case, CRMA Sponsor Spring Talks Series

Chemical market research will be the subject of a lecture series which the department of chemistry and chemical engineering of Case Institute of Technology, Cleveland, Ohio, is sponsoring in cooperation with the Chemical Market Research Association. The lectures are scheduled for the spring semester and will be held on the Case campus on Tuesday evenings beginning on February 3, at 7:30 p. m.

The lecture series has been arranged by the CMRA education committee, of which Richard M. Lawrence, Monsanto Chemical Company's general development department, St. Louis, Mo., is chairman. The series will be handled by Kenneth R. Parker, B. F. Goodrich Chemical Company, Cleveland, and W. von Fisher, of Case. All of the speakers of the series are members of the Chemical Market Research Association.

The program is designed for people in industry and in academic work who wish to improve their knowledge of market research's link between basic research and development and the production and ultimate sale of chemicals. The first half of the series will cover all of the known technics used by the market analyst for gathering and presenting market information. The second half will include actual case studies of all types of chemical industries where these methods are put into practice.

Schedule of Topics

The topics and speakers will be as follows:—

"Introduction to Chemical Market Research," R. B. Wittenberg, general manager, chemical division, the General Tire & Rubber Company, Akron, Ohio, February 3. "The Organization of the Chemical Industry," Charles P. Neidig, White, Weld & Co., New York, February 10. "Statistics and Charts," R. M. Prather, manager, market research department, Merck & Co., Rahway, N. J., February 17. "Published Sources," John H. Sprague, development department, Freeport Sulphur Company, New York, February 24. "Field Work," S. D. Koonce, market development manager, sales department, Jefferson Chemical Company, New York, March 3.

Also, "Market Survey Methods—Regular Products," Parker Frisselle, manager, market research, the Dow Chemical Company, Midland, Mich., March 10. "Market Survey Methods—New Products," W. S. Hutchinson, manager, new products commercial research, General Mills, Inc., Minneapolis, Minn., March 17. "The Market Research Report," R. F. Warren, senior market analyst, new product development, American Cyanamid Company, New York, March 24. "The Role of Market Research in Top Policy Planning," A. A. Williams, chemical division, Celanese Corporation of America, New York, April 7. "The Role of Market Research in Purchasing," L. J. Finnan, jr., director of purchases, Hercules Powder Company, Wilmington, Del., April 14.

Case Studies

And, "Case Study: The Paint Industry," Charles W. Berl, manager, market survey division, advertising department, Hercules Powder Company, Wilmington, Del., April 21. "Case Study: The Plastics Industry," R. W. Crawford, business research manager, plastics division, Monsanto Chemical Company, Springfield, Mass., April 28. "Case Study: The Sulphur Industry," E.

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Consulting Chemists Posts Go to Baldwin, Bowers

The Association of Consulting Chemists and Chemical Engineers has announced the appointment of Robert T. Baldwin as executive secretary and assistant treasurer and the appointment of A. B. Bowers as director of publicity and assistant executive secretary.

The association has also revealed that it will hold a symposium and dinner at the Belmont Plaza hotel, New York, on April 21, and will celebrate its twenty-fifth anniversary in the some hotel on October 27.

Hospital Pharmacists Name Allen Beck New President

The American Society of Hospital Pharmacists has announced the election of Allen V. R. Beck, of Indianapolis, Ind., as president for the coming year. Adela Schneider, of Houston, Tex., has been elected vice-president and Anna D. Thiel, of Miami, Fla., has been elected treasurer. They will be installed at the society's annual meeting in Salt Lake City, Utah, August 16 to 22.

Wyandotte Financial Head

George W Schwarz, since 1948 vice-president-controller of the Wyandotte Chemicals Corporation, Wyandotte, Mich., has been promoted to vice-president and treasurer, Robert B. Semple, president, has announced, Mr. Schwarz joined Wyandotte in 1938 as controller. The position of treasurer has been held by Ford Ballantyne, sr., who will continue to serve as vice-president and secretary of the company, offices he has held for many years.

FTC Chlorophyll Advertising Practices Parley Weighed

The bureau of industry cooperation of the Federal Trade Commission plans to explore the advisability of holding a trade practices conference in the new future on the advertising claims made for chlorophyll and products containing chlorophyll.

In an announcement last week, FTC said it believes it to be in the public interest at this time to hold such a conference because of the many and all-inclusive advertising claims made in various newspapers and other media, and because of the alleged conflicting statements made by the experts quoted in such advertising.

These conferences will explore and develop all available data, scientific and otherwise, with the view of taking such action in the public interest as may be appropriate under the laws administered by the commission, it was stated.

United States Steel Company To Merge Into Corporation

In the program of simplifying the corporate structure of United States Steel, United States Steel Company will be merged into United States Steel Corporation as of midnight December 31. United States Steel Corporation, the surviving corporation, will succeed to all of the properties and rights of United States Steel Company and assume all of the responsibilities and obligations of such company, it has been announced.

As of January 1, all business formerly conducted by United States Steel Company will be conducted in the name of United States Steel Corporation. After that date, purchase agreements entered into will be in the name of United States Steel Corporation and payments made and other action taken on and after that date under purchase agreements previously entered into will be made in the name of United States Steel Corporation, the announcement said.

Electrochemical Society Meeting Set for Apr. 12-16

The latest information on new techniques involving electro-chemical principles as now applied by medical and biological scientists will be presented in a symposium on "The Application of Electrochemistry to Biology and Medicine" at the spring meeting of the Electrochemical Society. The meeting will take place at the Statler hotel, New York, April 12 to 16.

The symposium has been arranged by the theoretical electrochemistry division of the society. Tentative titles of sessions are:—General; electrochemical phenomena of nerve transmission and muscular reactions; electrochemical studies of proteins, blood and plant cells; membrane potentials; electrokinetic phenomena in biology and medicine, and clinical applications.

Soap Ass'n Announces Annual Meeting Agenda

The Association of American Soap and Glycerine Producers has announced the program for the twenty-sixth annual soap industry convention, which will be held at the Waldorf-Astoria hotel, New York, January 27 to 29. In conjunction with this meeting, the Glycerine Producers' Association will hold its annual meeting on January 28.

A special session, planned to be of interest to both producers and users of fatty acids, has been scheduled for January 27 as the convention's opening feature. Dr. Raymond H. Ewell, head of the chemical economics service of Stanford Research Institute, will discuss the future supply situation of fats and oils as it affects usage of fatty acids and their probable future development. Trends in the rubber industry, particularly as they involve the use of fatty acids and soap, will be reviewed by Dr. Oliver Burke, research consultant who formerly served as deputy director of the Rubber Reserve Corporation. Metallic soaps will be the subject of a talk by Dr. E. F. Wagner, of the Witco Chemical Company.

Awards to Be Presented

Plans for the Glycerine Producers' Association meeting include a luncheon at which the annual glycerin research awards will be presented. The awards, established for the first time this year, are for the purpose of acknowledging and encouraging research which further advances glycerin's wide-spread applications in industrial and consumer field. The awards consist of an honor plaque carrying a cash stipend of $1,000 and two honor certificates with cash stipends of $300 and $200 respectively.

Judges for the awards are Sidney Kirkpatrick, vice-president of McGraw-Hill Book Company, New York; R. T. Milner, director of the Northern Regional Research Laboratory, Philadelphia, and Roy Kienle, director of application research for American Cyanamid Company, New York. The awards will be presented by Dr. John W. Bodman, technical adviser to the board of directors of Lever Brothers Company, New York, and chairman of the research committee of the association.

The program for the afternoon session of the meeting has been designed to interest both producers of crude glycerin and refiners of specification glycerin, as well as industrial consumers of the material. Included in the program will be a panel, made up of representatives of producers and refiners, on how yields and quality of crude glycerin can be improved. Instructions on how to avoid impurities which are difficult to remove and which cause below-specification product (because of foaming, color bodies, etc.) will be emphasized. Ralph S. Heller, technical superintendent of the Olin Cellophane Division, is scheduled to discuss the applications of glycerin as a plasticizer in cellophane and other cellulose wrapping materials.

The "Woman's Angle"

At a luncheon on January 28, Miss Jean Wade Rindlaub, vice-president of Batten, Barton, Durstine & Osborn, and 1951's "Advertising Woman of the Year," will speak on the "woman's angle" as an influence in decision-making as to soaps and detergents. Economic affairs on the domestic scene, particularly the problems connected with inflationary trends, will be discussed at a general session by Senator Paul H. Douglas, of Illinois. Philip Stomberg, of the A. C. Nielson Company, will report on recent trends in consumer purchases and G. A. Wrisley, president, will review the activities of the Association of American Soap and Glycerine Producers and project plans for 1953.

On January 29, Kevin McCann, president of Defiance College, and for more than five years assistant to Gen. Dwight D. Eisenhower, will address a luncheon meeting on the changes to be expected in Washington under the new administration. Carlos P. Romulo, Philippine Ambassador to the United States, will be the principal

—Continued on page 74

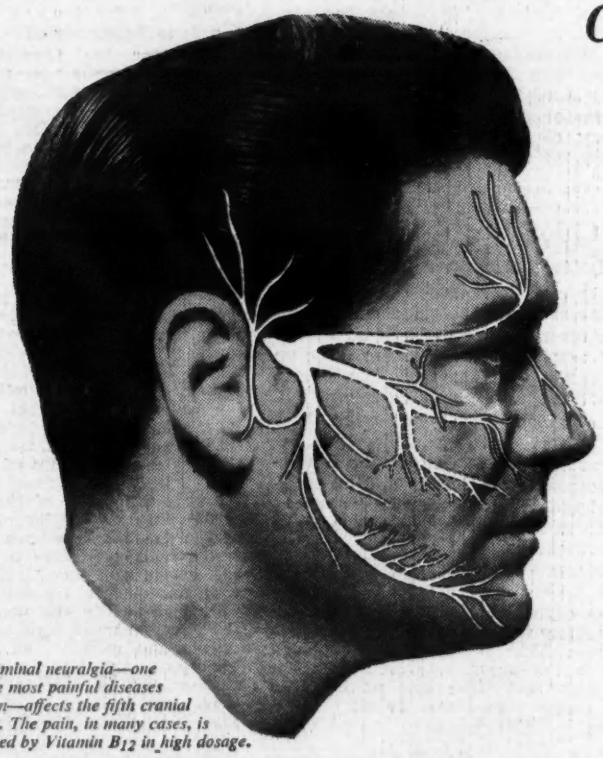
Essential Oils Association Annual Meeting January 9

The Essential Oils Association will hold its annual meeting and banquet January 9 at the Savoy Plaza hotel, New York. A meeting will be held at 6 p. m., to be followed by a cocktail party and dinner.

Oil Trades Meeting Jan. 21

The Oil Trades Association of New York will hold its quarterly meeting January 21 at the Waldorf-Astoria hotel, New York. A reception will be held at 6:30 p. m., followed by dinner at 7:30.

New Uses for Vitamin B_{12}



Trigeminal neuralgia—one of the most painful diseases known—affects the fifth cranial nerve. The pain, in many cases, is relieved by Vitamin B_{12} in high dosage.

Crystalline Vitamin B_{12} Relieves Pain of Neurologic Disorders

Recent clinical reports confirm the effectiveness of massive parenteral B_{12} doses (1,000 micrograms) in relieving the pain characteristic of trigeminal neuralgia, diabetic and certain other types of neuritis. [1, 2]

These developments forecast new markets for Vitamin B_{12} and focus attention on the many advantages of the crystalline Merck product. The purity, potency, stability, and lack of toxicity of Crystalline Vitamin B_{12}, plus the fact that it is the only form of this vitamin official in the U.S.P., make it a preferred ingredient for formulating oral and parenteral products. Your inquiries are cordially invited.

1. Sanchetta, S. M., Ayres, P. R., and Scott, R. W.: *Ann. Int. Med.* 35:*1028, November 1951.*
2. Fields, W. S., and Hoff, H. E.: *Neurology* 2:*131, March–April 1952.*

Crystalline Vitamin B_{12} U.S.P. Merck

CALL MERCK FOR VITAMINS

Vitamin A Palmitate
Solution of Vitamin A Palmitate in Corn Oil
Crystalline Vitamin A Acetate
Thiamine Hydrochloride U.S.P.
Thiamine Hydrochloride U.S.P. for Ampuls
Thiamine Mononitrate U.S.P.
Riboflavin U.S.P.
Niacin U.S.P.
Calcium Pantothenate Dextrorotatory
Niacinamide U.S.P.
Pyridoxine Hydrochloride
Triturations of Crystalline Vitamin B_{12}
Vitamin B_{12} Solids
Ascorbic Acid U.S.P.
Sodium Ascorbate
Alpha Tocopherol
Alpha Tocopheryl Acetate
Menadione U.S.P.
Vitamin K_1
Choline Chloride

Research and Production for the Nation's Health

MERCK & CO., INC.
Manufacturing Chemists
RAHWAY, NEW JERSEY
In Canada: MERCK & CO. Limited—Montreal

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, December 26 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).

Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —

over 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde 99% dms., c.l., frt. equald lb. .1250- .1435

l.c.l. frt. equald lb. .1350- .1535

tanks, frt. equald lb. .1050- .1300

Acetaldol (see Aldol).

Acetanilide tech., bbls., c.l., divd. lb. .26½- —

l.c.l., ton lots lb. .27½- —

smaller lots lb. .30½- —

USP, bbls., 2,000-lb. lots lb. .61 - —

smaller lots lb. .62 .67

Acetic, anhydride, dms., c.l., divd. E lb. .16 - —

l.c.l. frt alld E lb. .17½- —

tanks, frt. alld. E lb. .14½- —

Acetoacetanilide, fib. dms., c.l. divd. lb. .73 - —

l.c.l., divd lb. .74 - —

Acetoacetorthochloroanilide, fib. dms., c.l. divd lb. 1.14 - 1.22

l.c.l., divd lb. 1.15 1.23

Acetoacetorthotoluidide, fib. dms., c.l. divd lb. .73 - —

l.c.l., divd lb. .79 —

Acetone, CP, dms., c.l., divd lb. .10¼- .11¾

l.c.l., divd lb. .11 - .12½

tanks, divd. lb. .08½- .10

Methyl (see MD

Acetonitrile, dms., c.l. works lb. .45 - —

l.c.l., works lb. 47 —

Acetophenetidin USP, bbls., works, frt. equald lb. 1.15 - 1.17

Acetophenone, cns. dms lb. 1.35 1.85

tech., dms., l.c.l., works lb. .75 —

Acetyl (N) para-aminophenol, dms., frt. adjusted lb. 1.50 1.60

Acetyltributyl citrate, tech., dms., c.l lb. .37½- —

l.c.l lb. .38½- —

tanks lb. .36 —

Acetyltriethyl citrate, tech., dms., c.l lb. .37½- —

l.c.l. lb. .38½- —

tanks lb. .36 —

Acid, abietic, com'l, dms., c.l., works lb. .12 - —

l.c.l., works lb. .1390- —

cryst., dms., c.l., works lb. .06½- —

l.c.l., works lb. .07 - .07½

Acetic, com'l or redist., 28%, bbls 100 lbs. 5.50 - —

56%, bbls 100 lbs. 9.65 - —

70%, bbls 100 lbs. 11.70 - —

80%, bbls 100 lbs. 12.45 - —

glacial, synthetic, CP., dms., works 100 lbs. 15.00 -16.00

cbys., inclusive, works 100 lbs. 24.00 -25.00

tech., dms., c.l., works 100 lbs. 10.50 -12.50

l.c.l., works 100 lbs. 11.00 -13.50

tanks, works 100 lbs. 9.00 -11.50

USP, dms, works 100 lbs. 13.50 -14.50

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots lb. .50 - —

standard, fine, cryst., gran., (30-40 mesh powd. (60 mesh), bbls same basis, lb. .53 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .30½- —

Aminoacetic NF bbls., frt. adjusted lb 1.50 1.75

Anthranilic, resub. bbls lb. 2.10 - —

tech., bbls., frt. equald lb. 1.10 - —

Arsenous, tech. (see Arsenic, white). USP (see Arsenic trioxide).

Ascorbic USP dms., 25-50 kilo lots, kilo 21.00 - —

10-kilo lots kilo 21.35 - —

5-kilo lots kilo 21.75 - —

bots., 1-kilo lots kilo 22.00 - —

500-gram lots kilo 22.50 - —

Battery, cbys., c.l., works, E. 100 lbs 2.40 - —

l.c.l., works, E 100 lbs. 2.80 - 3.20

Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .425 - .450

USP, bbls., dms., 100-lb. lots or more lb. .525 - .540

Betahydroxynaphthoic (see Acid, betaoxynaphthoic).

Betaoxynaphthoic, bbls., works lb. 1.14 - —

Boric, tech., 99½% cryst., bgs., c.l., works ton 120.75 - —

ton lots, ex whse., N. Y. or Chi. ton 166.50 - —

less ton lots same basis, ton 171.50 - —

bbls., c.l., works ton 145.25 - —

ton lots, ex whse., N. Y. or Chi. ton 191.00 - —

less ton lots same basis, ton 196.00 - —

bulk, c.l., works ton 116.75 - —

gran., bgs., c.l., works ton 95.75 - —

ton lots, ex whse., N. Y. or Chi. ton 141.50 - —

less ton lots same basis, ton 146.50 - —

bbls., c.l., works ton 120.25 - —

ton lots, ex whse., N. Y. or Chi. ton 166.00 - —

less ton lots same basis, ton 171.00 - —

bulk, c.l., works ton 91.75 - —

powd., bgs., c.l. works ton 100.75 - —

ton lots, ex whse., N. Y. or Chi ton 146.50 - —

less ton lots same basis, ton 151.50 - —

bbls, c.l., works ton 125.25 - —

ton lots, ex whse., N. Y. or Chi. ton 171.00 - —

Boric, powd., bbls., less ton lots, same basis ton 176.00 - —

bulk, c.l. works ton 96.75 - —

USP $25 per ton higher.

Broenner's, bbls lb 1.47 - —

Butyric, 99%, dms., c.l., works, lb. .34 - —

l.c.l., works lb. .34½- —

tankcars, works lb. .32½- —

Cacodylic, bots lb 10.50 13.00

Camphoric, natural, dms lb. 4.00 4.75

synth., dms lb 4.00 4.75

Capric, 90%, dms lb. .32¼- .33½

Caprylic, 90%, dms lb. .32¼- .33½

Cassello, dms, frt alld lb 1.44 —

Castor oil, dms lb. .22½- .23

Chicago, bbls, frt alld lb .21 —

Chlorosulphonic, dms., c.l., frt. equald lb .039 —

l.c.l. frt equald lb .044 .059

tanks, frt equald lb .034 —

Cholic, 10 to 25-lb. lots, fiber dms. lb. 10.75 -10.85

Chromic, 99½-99¾% dms., c.l., works lb. .27 .27½

l.c.l., works lb. .27½- .28½

NF (see Chromium trioxide)

Cinnamic, refd. bots lb 3.50 3.50

Citric, anhyd., gran., fine gran., dms., c.l lb. .26½- —

10,000-lb. lots, 1 ship't. lb. .27 - —

smaller lots lb. .27½- —

kgs. lb. .28½- —

USP, gran, fine gran, dms., c.l lb. .24½- —

10,000-lb. lots, 1 ship't. lb. .25 - —

smaller lots lb. .25½- —

kgs. lb. .26½- —

Anhydrous and USP powdered citric acid, ½c. per lb higher.

Cleve's, mixed bls lb. 75 - —

Coconut oil, dist., dms lb. .21¾- —

tankcars lb. .20 - .20¼

double dist., dms lb. .22 - .24½

tankcars lb. .20¼- .21½

Cottonseed oil, dist., dms lb. .11¼- .12½

double dist., dms lb. .11¼- .12½

Cresylic, coaltar, dom., 50% above 210°C., dms., c.l., frt. equald, gal. 1.06 - —

l.c.l., same basis gal. 1.09 - —

tanks, same basis gal. .95 - —

207°C. or above, dms., c.l., same basis gal. 1.01 - 1.16

l.c.l., same basis gal. 1.04 - 1.10

tanks, same basis gal. .90 - 1.05

204° to 207°C., dms., c.l., same basis gal. 1.06 - 1.21

l.c.l., same basis gal. 1.09 - 1.24

Acid, cresylic, coaltar, dom., 204° to 207°C., tanks, same basis gal. .95 - 1.10

imp., 75% at 215°C. or over, dms., ex whse gal. .85 - 1.00

petroleum dom 195° to 213°C, non ret. dms., c.l. San Francisco and Los Angeles gal. 71 —

l.c.l., same basis gal. 73 .75

tanks same basis gal. 58 —

200° C to 222° C, tanks, Wilmington, Cal gal. .58 .63

211° C to 236° C non-ret. dms., c.l., San Francisco and Los Angeles gal. 63 —

l.c.l., same basis gal. 65 .67

tanks, same basis gal. .50 —

220° C to 242° C, tanks, Wilmington Cal gal. .50 .53

245° C to 298° C, tanks, Wilmington Cal gal. .46 —

Crotonic, fib. dms., works lb. .45 - —

Cyanoacetic, tech. bbls lb .90 1.25

Dehydrocholic, injection, fib. dms., 10 to 100-lb. lots lb. 23.00 -25.50

oral, fib., dms., 10 to 100-lb. lots lb. 18.40 -18.45

Desoxycholic, fib. dms., 10 to 100-lb. lots lb. 23.50 - —

Dichlorophenoxyacetic (see under 'D' 2,4-D).

Diethylbarbituric (see Barbital).

Diglycolic, bgs. works lb. .14 - —

Ethylhexoic, dms. c.l., works lb. .35 - —

l.c.l. works lb. .35½ —

tanks works lb. .35¼- —

F. crude, paste, bbls., works lb. 1.67 —

Folic, bots, fib cns, kilo or more gram 1.60 —

Formic, 85% cbys, c.l., works lb. .142 .17

l.c.l., works lb. .14½ .22

90%, cbys., c.l., works lb. .1475 .1750

l.c.l., works lb. .15 .23½

Fumaric, tech. bbls, dms lb .37 .38

Gallic, NF VII, bbls., 1,000-lb. lots, lb 1.60 —

smaller lots lb 1.82 2.00

technical, bbls., 1,000-lb. lots lb 1.58 —

smaller lots lb. 1.60 1.78

Gamma, dry, ground, bbls., frt. alld lb 1.50 - —

paste, bbls., frt. alld lb. 1.45 - —

Gentisic, 100-lb fib dms lb 6.50 —

Gluconic, tech., 50% bots lb. .23½ .31½

dms lb. .14½- —

cbys. lb. .17½- —

Glutamic 99½% laevo, fib. dms., 100-lb lots, works lb 2.45 2.53

25-lb. lots, works lb. 2.60 2.66

Glycerophosphoric, 35%, dms., works lb. 2.25 2.35

Acid, glycolic (see Acid hydroxyacetic).

H, basis 100%, bbls., works lb. .82 - —

Hydriodic, 1.50 s.g. cbys lb 2.67 —

1.70 s.g. cbys lb 2.98 —

Hydrobromic, medicinal, 48%, cbys., divd E lb .37 .43

Hydrochloric (see Acid muriatic)

Hydrocyanic, cyls., works lb. 1.15 - —

dilute, NF, 2½%, 5-lb. bots lb. .40 - —

Hydrofluoric, anhyd., cyls., works lb .24 .25

tanks, works lb .18 —

70%, steel dms., works lb. .1535- .1955

Hydrofluosilicic, 30-35%, bbls., works lb .07 - —

Hydroxyacetic, tech. 70% bbls., non-return., Phila., basis 100% lb. .12 - —

tanks Belle, W. Va., basis 100% lb .085 —

Hypophosphorous, purif., 50%, cbys lb. 1.30 - 1.32

USP, cbys lb .88 —

Isonicotinic, 100 lb fib. dms. works lb 10.00 —

J, bbls., works, basis 100% lb 2.50 2.85

Koch, bbls, frt. alld lb .64 .70

L, bbls frt alld lb 1.25 —

Lactic, edible, 50% bbls., 20 or more lb .17 .20

smaller lots lb .17½ .21

80%, bbls., 5 or more lb. .30 - .3640

less than 5 bbls lb. .305 .3690

plastic grade, 50% bbls., 20 or more, works lb. .21¾ —

1 to 19 lb .22¼ .22¾

80% bbls., 5 or more lb. .3815- —

tech., 22%, bbls., c.l., works, 100 lbs 6.30 —

l.c.l., works 100 lbs 6.70 —

cbys., works 100 lbs 7.20 -12.20

44%, bbls., c.l., works 100 lbs. 11.45 -11.95

l.c.l., works 100 lbs. 11.85 -12.50

NF, 85% cbys lb .85 .88

Laurent's, bbls lb .60 .67

Lauric, 90%, dms lb. .31½- .33

60%, dms lb. .22¼- .23¼

Linseed oil, dist., dms lb. .2060- .2110

water-white, dms lb. .2360- .2410

Maleic, cryst, powd., dms. lb. .37 .38

Malic, tech., dms lb. .50 —

Mandelic, NF, dms., 1,000-lb. lots, lb 2.35 —

smaller lots lb 2.40 2.50

Metanilic, dms., works lb. .57 .75

Methacrylic, dms., c.l., and truck loads, works lb 76 —

less than truckload works lb 76½ .80

Molybdic, 85-92%, dms, works lb. 1.27 - —

Monochloroacetic, purified, flake, 99%, dms lb. .23½- .25½

tech., flake, 96-97%, dms lb. .20 .22

Muriatic, 18° cbys., c.l., works 100 lbs 2.45 2.80

l.c.l., divd. Metropolitan area 100 lbs 3.50 4.30

tanks, works ton 25.00 -29.00

20°, cbys., c.l., works 100 lbs 2.70 3.05

l.c.l., divd. Metropolitan area 100 lbs. 3.50 4.30

tanks, works ton 27.00 -33.00

22°, cbys., c.l., works 100 lbs 3.30 3.40

l.c.l., divd. Metropolitan area 100 lbs. 3.50 4.30

tanks, works ton 32.00 -36.00

CP, USP consumers, cbys., extra, c.l., works lb. .11¾- —

l.c.l., same basis lb. 13¼ .13¾

5 pint bottles, extra, cs., c.l., same basis lb. .16¾ —

l.c.l., same basis lb. .19¼- —

Acid, muriatic, CP, USP, prices to dealers, 1½c. per lb. less.

Myristic, dms lb. .28¾- .29

Naphthenic, 220-230 acidity, dms., works lb .14 - —

tanks, works lb .12 - —

Naphthol(1)-4-sulphonic (see Acid, Neville and Winthers)

Naphthol(1)-5-sulphonic (see Acid, L).

Naphthol(1)-5-sulphonic,3-amino (see Acid, S).

Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).

Naphthol(2)-6,8-disulphonic (see Acid, Gamma).

(2)-7-Sulphonic,3-amino (see Acid, J).

Naphtholsulphonic, mixed (see Acid, Cleve's, mixed)

Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).

(2)-6-sulphonic (see Acid, Broenner's).

(2)-7-sulphonic (see Acid, F).

(2)-1-sulphonic (see Acid, Tobias)

Neville and Winther's, dms., frt. alld lb 1.03 - —

Nicotinic, USP, dms, frt. adjusted kilo 9.00 9.30

Amide (see Nicotinamide).

Nitric, 36° Be cbys., c.l., works, E. 100 lbs 5.00 —

l.c.l., works E 100 lbs 5.30 -11.10

38° Be cbys., c.l., works E 100 lbs 5.50 —

l.c.l., works E 100 lbs 5.80 -11.60

40° Be cbys., c.l., works E 100 lbs. 6.00 6.50

l.c.l. works E 100 lbs 6.30 -12.10

42° Be cbys., c.l., works E 100 lbs. 6.50 7.00

l.c.l., works E 100 lbs 6.80 -12.60

60% HNO_3, tanks, works, basis 100% 100 lbs. 3.25 - —

95% HNO_3, tanks, works, basis 100% 100 lbs. 4.25 - —

CP, NF consumers, cbys., extra c.l., works lb. .13½- —

l.c.l., same basis lb .15 - .15¼

5 pint bottles, extra, cs., c.l., same basis lb .17½ —

l.c.l. same basis lb. .19 - .25

Oleic, single distilled, dms lb. .13½- .14¾

tanks lb. 11¾ —

double distilled (white), dms lb .16 - .17¼

tanks lb 14¼ —

Oleum (see Acid, sulphuric, fuming).

Orthochlorobenzoic, fib. dms., works lb 1.13 - —

Orthocresotinic, dms., ton lots, works lb. .66 - —

smaller lots, works lb. .68 - —

Acacia—Acid, Orthocreosotinic

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dest-dist.	destructive-distilled	neut.	neutral
		dextro	dextrorotatory	NF.	National Formulary
alld.	allowed	dist.	distilled	No.	number
ammo.	ammonia	distr.	distributor	nom.	nominal
amorph.	amorphous	djns.	demijohns	ord.	ordinary
AMP.	American melting point	dlvd.	delivered	oz.	ounce
		dms.	drums	Pac.	Pacific
anhyd.	anhydrous	dom.	domestic	pf.	proof
a.p.a.	available phosphoric acid	E.	east	phos.	phosphate
		e.p.	end point	photo.	photographic
artif.	artificial	equald.	equalized	pkgs.	packages
ASTM.	American Society for Testing Materials	F	fahrenheit	powd.	powdered
		ferment.	fermentation	precip.	precipitated
		ffa.	free fatty acid	prod.	producer
Be.	Baume	ffc.	free from chlorine	pt.	point
bbls.	barrels			pulv.	pulverized
bgs.	bags	fib.	fiber	purif.	purified
bls.	bales	f.o.b.	free on board	redist.	redistilled
bots.	bottles	FPA.	free of prussic acid	refd.	refined
b.p.	boiling point			refy.	refinery
b.p.l.	bone phosphate of lime	frt.	freight	reg.	regular
		fus.	fused	resub.	resublimed
b.r.	boiling range	gal.	gallon	ret.	returnable
bxs.	boxes	gran.	granular	SD.	specially denatured
C.	centigrade	grd.	ground		
cbys.	carboys	i.&a.	iron and aluminum	s.d	single distilled
CD.	completely denatured	i.b.p.	initial boiling point	S. E.	southeast
				secs.	seconds
c.i.f.	cost, insurance, freight	imp.	imported	s.g.	specific gravity
		incl.	included	shipt.	shipment
cks.	casks	indust.	industrial	solut.	solution
c.l.	car lots	kgs.	kegs	s.u	standard unit
cns.	cans	lacq.	lacquer	synth.	synthetic
col.	color	lb.	pound	tanks.	railroad tank-cars
coml.	commercial	l.c.l.	less than car lots	tech.	technical
conc.	concentrated	liq.	liquid	USP.	U. S. Pharmacopoeia
CP.	chemically pure	m.a.p.	mixed anilin point		
cps.	centipoises	M c.f.	thousand cubic feet	vis.	viscosity
cryst.	crystal			VM&P	varnish makers & painters
cs.	cases	min.	minimum		
ctns.	cartons	m.p.	melting point	W	west
cyls.	cylinders	N.	nitrogen	whse.	warehouse
dbl.	double	nat.	natural	w w	water white
denat.	denatured				

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material

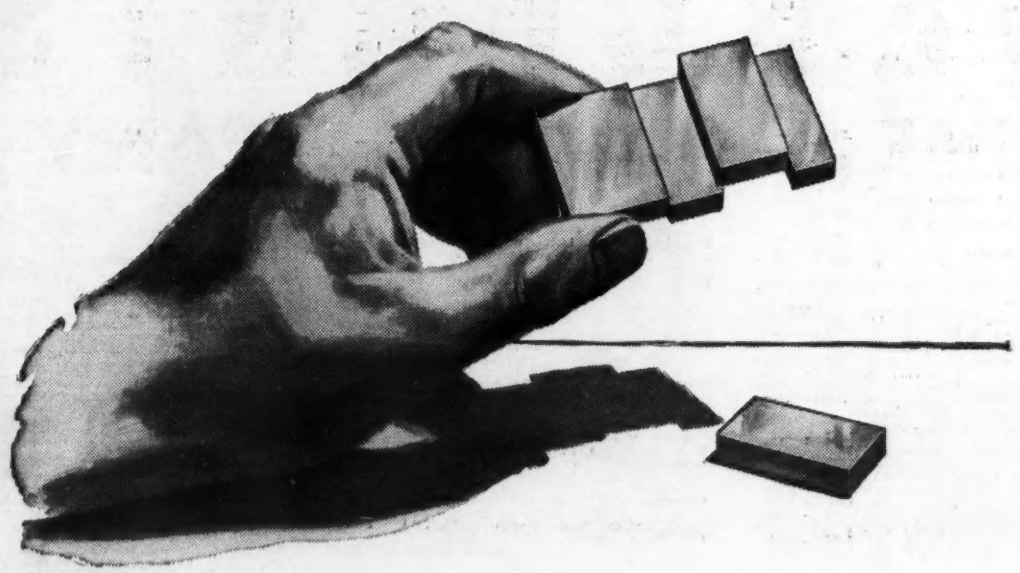
Acid, Oxalic—Alcohol, Isopropyl

Acid, oxalic, bbls., c.l., works lb. .1575-.1590
10,000-lb lots, works lb. .16 - .1615
smaller lots, works lb. .17 - .1715
Palmoil, double dist., dms lb. .11½-.12¾
Para-aminobenzoic, tech., dms., lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 3.50 - —
smaller lots lb. 3.55 - 3.75
Para-aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.25 - —
smaller lots, same basis lb. 4.30 - 4.75
Parachlorobenzoic, fib. dms., works lb. 1.59 - 1.62
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb. .92 - 1.04
Phenylacetic, bots lb. 1.45 - 1.75
tech., dms., 1,000-lb. lots lb. .90 - —
Phenylcinchoninic (see Cinchophen).
Phenylglycollic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys. c.l., works 100 lbs. 7.00 - 7.10
l.c.l., works 100 lbs. 7.50 - 8.00
tanks, works 100 lbs 4.90 5.00
NF, 85%, cbys., c.l., works lb. .08 - .08¼
l.c.l., works lb. .08½- .09¼
Picric, NF 300-lb. bbls lb. .55 —
dms., small lb. .81 - .87
tech., bbls lb .32 - .33
Propionic, synthetic, pure, dms., c.l., works lb. .258 - —
l.c.l., works lb. .263 - —
tanks, works lb. .19 - .243
Pyrogallic, NF, (see Pyrogallol)
tech., bbls lb. 2.76 - 2.90
Pyroligneous, dms., incl., l.c.l., works gal. .36 - —
whse. gal. .504 - —

Acid, ricinoleic (see Acid, castor oil, split).
S. bbls., works lb 3.25 - —
Salicylic, crude, bgs lb. .38 - —
sublimed, tecn., bbls., c.l. lb. .37 - —
l.c.l. lb. .44 - —
dyestuffs grade, bbls lb. .39 - —
USP, cryst., bbls lb. .46 - —
powder, bbls lb. .51 - —
Sebacic, purified, dms., c.l., works, lb. .93 - —
l.c.l., works lb. .93½- .95
Soybean oil, double dist., dms lb. .12¾- .14
single, dist., dms lb. .12¼- .13½
Stearic, double pressed, bgs lb. .12 - .13¼
single pressed, bgs lb. .11½- .12¾
triple-pressed, bgs lb. .14¼- .15½
Succinic, purified, cryst., bbls., works lb .63 - .75
Sulphanilic, tech., dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .20 - —
Sulphuric, 60° Be, cbys., c.l., works 100 lbs. 1.75 - —
l.c.l. works 100 lbs. 2.05 - 2.85
tanks, works ton.16.30 - —
66° Be, cuys., c.l. works 100 lbs. 2.00 - 2.10
l.c.l., works 100 lbs 2.30 - 3.10
tanks, works ton.20.00 - —
96-100%, tanks, works ton.21.00 - —
CP, NF, consumers cbys., extra, c.l., works, frt. equald. lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¼
fuming, 20% tanks, works ton.22.40 - —
Tallow, dist., dms lb. .10½- .11¾
hydrogenated, dms lb. .10½- .11¼

Acid, tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .25 - —
Tartaric, USP, dom., 230, 250-lb., dms., c.l. lb. .37 - —
10,000-lb. lots, 1 ship't. lb. .37½- —
smaller lots lb. .38 - —
100-lb. dms lb. .39 - —
small dms lb. .41 - .47
imported, bgs lb. .28 - —
Thioglycolic, refined, bgs., cbys., basis 100% lb. 1.60 - 1.86
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulphonic, dms., c.l., works works lb. .16 - —
l.c.l., works lb. .17½- —
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2.4.5-T).
Tungstic, tech., kgs., works lb. 4.30 - —
Undecylenic, dms. lb 1.40 - —
Aconite leaves, bls lb. .35 - .40
root, bls lb. .65 - .75
Aconitine, amorph., mild, bots oz.27.50 -32.50
cryst., potent, bots oz.78.00 85.00
Acrolein, dms., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .44½- —
l.c.l. works lb. .45 - .47
tanks, works lb .43 - —
ACTH, bots gm.25.00 - —
Adeps lanae (see Lanolin).
Adonis vernalis herb, bls lb. .22 - .24
Adrenocorticotropic hormone—see ACTH
Agar, USP, Kobe No. 1 strip, bls. lb. 2.25 - —
powdered, 30 mesh, fib. dms. lb. 2.25 - 2.50
Agaric, white, bls lb 2.25 Nom.
Agrimony, herb, bls lb. .25 - .30
Alanine, dextro-laevo, dms., works. lb. 8.50 -11.00

Albumen (egg), edible, flakes, bbls., lb. 2.61 - 2.63
powder, bbls lb. 2.65 - 2.67
tech., cryst., bbls lb. 1.01 - 1.08
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., l.c.l. lb. .70 - .80
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¾- —
l.c.l., dlvd lb. .32½- —
tanks, dlvd. lb. .30 - —
Amyl, ex fusel oil (see Fusel) oil, ref.)
ex pentane, dms., c.l., frt. alld. E. of Rockies lb. .16¾- —
l.c.l., frt. alld E. of Rockies lb. .17½- —
tanks, frt. alld. E. of Rockies lb. .15 - —
fermentation, ref'd., 126°-132°C., dms., c.l., dlvd. lb. .32¾- —
l.c.l., dlvd lb. .33¾- .36
tanks, dlvd lb. .31 —
128-132° C. dms. l.c.l. dlvd. lb. .33¾- .36
ACS grade, dms., l.c.l., dlvd lb. .35¾- —
synthetic, normal, dms., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
tanks, works lb. .40 - —
secondary, dms. c.l., frt. alld. E lb. .23¼- —
l.c.l., frt. alld. E lb. .24 - —
tanks, frt. alld. E lb. .21½- —
tertiary, dms. c.l. frt. alld. E. lb. .19¾- —
l.c.l., frt. alld. E lb. .20½- —
tanks, frt. alld. E lb. .18 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms. dlvd lb. .47½- .49
Butyl, fermentation, normal, dms., c.l., frt. alld lb. .14¾- —
l.c.l., frt. alld lb. .15½- —
tanks, frt. alld lb. .13 - —
synthetic normal, dms. c.l., frt. alld lb. .14¾- —
l.c.l., frt. alld lb. .15½- —
tanks, frt. alld lb. .13 - —
secondary dms. c.l. frt. alld. lb. .12¾- —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .11 - —
tertiary, dms. c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .15 - —
l.c.l., works lb. .15½- —
tanks, works lb. .13½- —
95%, dms., c.l., works lb. .16½- —
l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. 1.32 - —
smaller lots lb. 1.37 - —
NF, fib., cns., 140-lb. lots or more lb. .72 .90
smaller lots lb. .72 1.00
Cinnamic, bots lb 2.25 - 3.20
Decyl, bots lb. 1.70 2.00
Denatured, CD12, CD13, CD14, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., dlvd., same basis gal. .58½- —
tanks, dlvd., same basis gal. .42½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .55 - .69½
l.c.l., same basis gal. .59 - .78½
tanks, same basis gal. .43 - .57½
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .55 - —
l.c.l., same basis gal. .59 - —
tanks, same basis gal. .43 - .57
SB2B, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .57 - —
tanks, same basis gal. .41 - .56
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .57 - —
tanks, same basis gal. .41 - .55
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .59½- —
tanks, same basis gal. .43½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .59½- —
tanks, same basis gal. .43½- .57½
SD29-1, dms., c.l., dlvd. E. of Rockies gal. .53½- —
l.c.l., same basis gal. .57½- —
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .52½- —
l.c.l., same basis gal. .56½- —
tanks, same basis gal. .40½- .54½
SD35A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .59½- —
tanks, same basis gal. .43½- .58
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .58 - —
tanks, same basis gal. .42 - .56½
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.47 - —
l.c.l., same basis gal.20.51 - —
tanks, same basis gal.20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .52 - —
l.c.l., same basis gal. .56 - —
tanks, same basis gal. .40 - .55
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies. gal.21.57 - —
l.c.l., same basis gal.21.61 - —
tanks, same basis gal.21.45 - —
Ethylbutyl, dms., c.l., works lb. .29¼- .29½
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E lb. .27¾- —
l.c.l., same basis lb. .28¾- —
tanks, same basis lb. .26¼- —
Furfuryl, tech., cns., works lb. .31 - —
dms., c.l., works lb. .22½- —
l.c.l., works lb. .24 - —
tanks, works lb. .19½- —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd lb. .26¼- —
l.c.l. dlvd. lb. .27 - —
tanks, dlvd. lb. .24½- —
Isopropyl, refd., 91%, dms., c.l., dlvd. gal. .47½- .54
l.c.l., dlvd. gal. .52½- .59
tanks, dlvd. gal. .35½- .42
95%, dms., c.l., dlvd gal. .49¾- .55½
l.c.l., dlvd. gal. .54¾- .59½
tanks, dlvd. gal. .37¾- .43½
99%, dms., c.l., dlvd gal. .52 - .59
l.c.l., dlvd. gal. .57 - .64
tanks, dlvd. gal. .40 - .47



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ISOAMYL ALCOHOL
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1429 WALNUT STREET, PHILADELPHIA 3, PA.

Alcohol, lauryl, bots.....lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots lb. 1.70 - 3.25
Technical (see Octanol normal).
Pentothenyl (see Panthenol).
Phenylethyl, dms lb. 1.57 - 2.15
Polyvinyl, various grades, bgs., ton lots, works lb. 72½ - 76
smaller lots works lb. 77½ - 81
Propyl, normal, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Waverly, N. Y. lb. .49½- —
dms., Niagara Falls, N. Y. lb. .42½ - —
l.c.l., Waverly, N. Y. lb. .45 - —
tanks, Niagara Falls, N. Y. lb. .40 - —
Industrial grade, dms c.l., Niagara Falls N. Y lb. .29 - —
l.c.l., Waverly N. Y. lb. .30 - —
tanks, Niagara Falls, N. Y lb. .27 - —
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, 60% solut. dms c.l. works, frt. alld. lb. .64½- —
l.c.l., works, frt. alld. lb. .76½- —
Aletris root, bgs lb. 1.20 1.25
Algin (see Sodium alginate).
Alkanet root, bgs lb. .45 - .46
Allethrin, 100%, dms., frt., alld lb. 32.00 - —
90%, dms., frt. alld lb. 28.80 - —
solution, 20% dms. 100-lb. lots frt. alld lb. 6.65 - —
2½%, dms., frt. alld gal. 6.00 - —
Allspice (see Pimento)
Allyl bromide, chys., works lb. 1.35 1.40
Chloride, dms, c.l. dlvd lb. .16¾ - —
l.c.l., dlvd lb. .17½ - —
tanks, dlvd lb. .15 - —
Starch, solid, dms, works lb. .52¾ - .54¾
solution, 40% toluol-butanol, dms., works lb. .25½ - .26¼
Aloe, Cape cs lb. .28 - .30
powdered, cs lb. .33 - .35
Curacao, kgs. lb. .50 - .55
Socotrine, kgs. lb. .25 - .35
Aloin, USP, bbls, dms, kgs lb. 4.25 4.70
Alphanaphthol, bbls, frt alld lb. .85 - —
Alphanaphthylamine, bbls, frt, alld. lb. .45 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline, ret, dms., c.l., works, frt. equald. lb. .39½- —
l.c.l., works, frt, equald lb. .40 - —
Alphapinene, tanks, South, works gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd, E. lb. .17 - —
Alphatocopherol, bots kilo. 250.00 - —
Acetate, bots kilo. 250.00 - —
Althea root, NF, peeled, bls lb .20 - .33
Alum, ammonium, gran., bgs., works 100 lbs. 3.80 - —
lump, dms., works 100 lbs. 4.55 - 4.95
powd., dms., works 100 lbs. 4.70 - 5.10
USP, burnt dms lb. .20 - .21
hydrous, dms lb. .07¾ - .08
Potassium, gran., bgs., works, 100 lbs. 4.05 - —
lump, dms., works 100 lbs. 4.80 - 5.20
powd., dms., works 100 lbs. 4.95 - 5.35
USP, burnt dms lb. .20 - .21
hydrous, dms lb. .07¾ - .08
Potash-chrome dms lb. .17 - —
Sodium, dms., c.l. works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined bgs., c.l., works, lb. .0385- —
l.c.l., works lb. .0410- .0510
crystalline (see Aluminum oxide).
Aluminum acetate basic solut., 24%, bbls, l.c.l. works lb. .14 - —
Chloride, com'l, anhyd dms., c.l., works, frt. equald lb. .15 - —
l.c.l. works frt equald. lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
l.c.l., works lb. .1070- —
solution, 32° chys., c.l., works, lb. .0369- —
l.c.l., works lb. .0435- .0960
tankcars, works 100 lbs. 2.80 - —
NF, gran., dms works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. .11¾- —
l.c.l., works lb. .12¾- —
Aluminum fluoride, fiber dms., 35c. per 100 lbs. higher.
Formate, basic solution cbys lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 60.00 - —
l.c.l., works ton. 65.00 - 85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3 fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3 fib dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .92½- —
contract, works lb. .79½- —
powder, tech (see Aluminum hydrate).
Laurate precip. bbls lb 44 - —
Metal, 99%+ ingots 10,000-lb lots lb. .20 - —
pigs, 10,000-lb. lots lb. .19 - —
Oxide, amorphous (see Alumina, calcined)
crystalline flour classified, 8-240 mesh, dms, frt. alld lb. .14 - .15
kgs., frt. alld lb. .12½- —
smaller lots, frt. alld. lb. .13 - .15
288-400 mesh, dms., frt. alld lb. .32 - .33
kgs., frt alld lb. .31 - —
500 mesh, dms., frt. alld lb. .35 - .37
kgs., frt alld lb. .34 - —
600 mesh dms., frt. alld. lb. .51 - .53
kgs. frt alld lb .50 - —
Aluminum oxide flour prices W. of Denver ¼c. per lb. higher.
optical, floated, kgs., dlvd lb. .36 - .36
unclassified, dms, frt. alld. lb. .16 - .17
kgs. frt alld lb. .15 - —
Paste, lining, extra-fine, dms lb. .39½- —
standard, dms lb .41 - —
Powder, lining, extra fine, dms. lb. .37½- —
standard, dms lb. .68½- —
rubber grade, dms lb. .58½- —
unpolished, standard, dms lb. .54½- —
varnish standard dms lb. .39 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb dm., 1½c. per lb for 50-lb dm., 3c. per lb for 10-lb can and 5c to 12c per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs., 2c for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c for 30,000 lbs or more Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over

Resinate, precip., dms., frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l. lb 33 - —
ton lots or less lb 34 - —
monobasic, ctns c.l. lb 33 - —
ton lots or less lb 34 - —
tribasic ctns c.l. lb 33 - —
ton lots or less lb 34 - —

Aluminum sulphate, com'l, bulk, c.l., works 100 lbs. 1.65 - —
ground, bgs., works ton. 33.00 - —
lump, bgs., works ton. 36.00 - —
iron-free bgs. c.l., works, frt. equald 100 lbs 3.25 - —
l.c.l., works, frt. equald 100 lbs. 3.65 - 6.15
USP, gran., dms., works lb. .13 - .15
powd., dms., works lb. .14 - .16
Trihydrate heavy (see Aluminum hydrate)
Ambergris, gray, bots oz. 7.50 - 10.00
Ambrette seed bgs lb. .65 - 66
Aminoazotoluene bbls lb .94 - 1.03
Aminoethylethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd lb. .47½- —
tanks, dlvd lb. .45 - —
Aminomethylpropanol, cns., dms., works lb 60 - —
Aminophyllin, USP, 100-lb. dms lb. 4.30 - —
Aminopyrine USP bots dms lb 6.00 6.15
Ammonia, anhydrous, fertilizer, tanks, works ton. 79.00 - 82.00
pure, cyls., extra zone 1 lb .17 - 17½
2 lb. .17 - .18
3 lb. .17 - .19
4 lb. .20 - .21
5 lb. .16 - .19
refrigeration tanks, works ton. 80.00 - 84.50
Aqua (29.4%, NH_3), dms., c.l., dlvd., Met. area 100 lbs. 3.60 - —
l.c.l. works 100 lbs 4.00 - —
tanks, works, anhyd. basis ton. 90.00 - —
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bgs. c.l., works, frt. equald 100 lbs 8.25 - —
l.c.l., same baris 100 lbs. 8.65 - 11.15
white, gran. bgs. c.l., works 100 lbs 4.75 - —
l.c.l., works 100 lbs. 6.50 - —
Ammoniacal liquor tankcars, works, anhyd. basis ton. 90.00 - —

Alcohol, Lauryl—Ammonium Thioglycollate

Ammonium acetate, purified, dms. lb. .38 - —
Benzoate, USP, dms, kgs. 4,000 lb lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, bbls., c.l., works ton. 312.00 - —
ton lots, ex whse ton. 375.00 - —
less ton lots, ex whse ton. 380.00 - —
Bicarbonate, dom., dms., c.l., works lb. .06 - —
l.c.l., works lb. .07 - —
imported, dms., l.c.l lb. .07¼ - .08½
Bichromate bbls, works lb. .33 - .38
Bifluoride, dms., dlvd lb. .2035- .2160
Bromide, NF, gran., bbls lb. .38 - .39
dms lb. .39 - .42
Powdered ammonium bromide 10c per lb higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech. (see Ammoniac sal).
USP, gran., bbls., dms lb. .17¼ - —
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF dms lb. 2.40 - —
Iodide, NF, bots., jars rb. 4.01 - 4.13
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 33.5% N, bgs., c.l., shipping point ton. 72.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton. 86.34 - —
domestic, bgs., western works ton. 64.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton. 51.00 - —

Ammonium oleate, 75%, dms., works lb. .55 - .60
Oxalate fine gran. dms lb. .25 - .31
Pentaborate, gran, bbls., c.l., works ton 222.00 - —
ton lots, ex whse ton. 285.50 - —
less ton lots, ex whse ton. 290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - 73
Persulphate, kgs lb. .38 - —
Phosphate com'l bgs. c.l. works, frt. equald lb. .08½- —
c.l., same basis lb. .09 - —
dibasic NF V bbls. dms lb. .45 - —
tech., bgs., c.l., works, frt. equald lb. .08½- —
l.c.l., same basis lb. .09 - —
Salicylate, NF dms kgs lb 1.62 1.64
Silicofluoride dms, works lb. .11 .12
Sulphamate, bbls, dms., works lb. .18 .20
Sulphate, coke-oven, bulk producing nvens ton. 44.00 - 49.50
synthetic bgs. c.l., western, works ton. 50.00 - 54.50
bulk, works ton. 47.00 - 49.50
purified, dms, works lb. .07½ - .08¼
Sulphide, liq., 40-45%, dms., c.l., basis 100% works ton. 211.50 - —
l.c.l. basis 100% works ton. 312.50 - —
tanks, dlvd or frt alld ton 181.50 - —
Sulphocyanide, tech. (see Ammonium thiocyanate)
Thiocyanate, tech., dms., c.l., works lb .18 - —
l.c.l. works lb .19 .30
Thioglycollate, com'l, cbys., basis 100% lb. 1.60 - —
highly purified, cbys., basis 100% lb. 1.70 - 1.95

MERCHANTS
CHEMICAL COMPANY
INC.

60 EAST 42nd STREET NEW YORK 17, N. Y.

AURORA, Ill.
APPLETON, Wis.
ALBUQUERQUE
CHICAGO
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DES MOINES
LOUISVILLE
MILWAUKEE
MINNEAPOLIS
OMAHA

DISTRIBUTORS OF INDUSTRIAL CHEMICALS FOR OVER 25 YEARS

Prompt delivery from warehouse stocks
of the following chemicals:

ACIDS
BORIC
CHROMIC
MURIATIC
SULPHURIC
ALUMS
ALUMINUM SULPHATE
BORAX
BORIC ACID
CALCIUM HYPOCHLORITE
CARBON DIOXIDE (SOLID)
CARBON TETRACHLORIDE
CARBOXYMETHYLCELLULOSE
CAUSTIC POTASH
CAUSTIC SODA
CHLORIDE OF LIME
CHLORINE
COPPER SULPHATE
EPSOM SALTS
ETHYLENE DICHLORIDE
FORMALDEHYDE
GLYCERINE
HYDROGEN PEROXIDE
IRON CHROMITE
MURIATE OF POTASH
NAPHTHALENE
ORTHODICHLOROBENZENE
PARADICHLOROBENZENE
PERCHLORETHYLENE
POTASSIUM BICHROMATE
POTASSIUM PERMANGANATE
PROPYLENE GLYCOL
SOAPS
SODA ASH
SODIUM BICARBONATE
SODIUM BISULPHATE
SODIUM BISULPHITE
SODIUM BICHROMATE
SODIUM CHROMATE
SODIUM HYDROSULFITE
SODIUM HYPOSULFITE
SODIUM METASILICATE
SODIUM NITRATE
SODIUM ORTHOSILICATE
SODIUM PERBORATE
SODIUM PHOSPHATES, All types
SODIUM SILICATE
SODIUM SULPHIDE
SODIUM SULPHATE
SODIUM SULPHITE
SODIUM SESQUICARBONATE
STEARATES
SULPHUR
SYNTHETIC DETERGENTS
TRICHLORETHYLENE
TRISODIUM PHOSPHATE
WETTING AGENTS
ZINC SULPHATE

SERVICE **QUALITY**

ALSO A COMPLETE LINE OF LAUNDRY & DRY CLEANING SUPPLIES

Ammonium Thiosulphate—Biotin

Ammonium thiosulphate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% solution, dms., c.l., works lb. .06½- —
Amphetamine hydrochloride dibasic, dextro, bots lb.32.00 - —
dextro-laevo, dms lb 6.50 - 7.00
monobasic, dextro, bots lb.32.00 - —
Phosphate, dibasic, dextro, bots.lb.32.00 - —
dextro-laevo, dms lb 6.50 - 7.00
Sulphate, dextro, dms lb.32.00 - —
dextro-laevo dms lb 6.50 - 7.00
Amyl acetate, ex fusel oil, tech., E of Rockies lb. .16¾- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .15 - —
ex pentane, dms., c.l., frt. alld. E of Rockies lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18 - —
Alcohol (see Alcohol, amyl).
Butyrate, dms lb. .90 - 1.05
Cinnamic aldehyde, dms lb 1.70 - 2.10
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .75 - .95
Anethol, NF cns., dms lb 1.20 - 1.60
Angelica root dom., bls lb .60 - .70
imported bls lb .50 - .80
Angostura bark bls lb .43 - .48
Anilin oil, dms., c.l., works, frt. alld. lb .19 - —
l.c.l., works, frt. alld lb. .20 - —
tanks, works, frt. alld lb. .18 - —
Salt dms., frt alld lb. .30 - —
Anise, Balkan, bgs lb. .12¼- .13
Chinese, star, bgs lb. .58 Nom.
Czech, bgs lb. .12 - .12½
Mexican bgs lb. .14½- .15
Spanish, bgs lb. .15 - .15½
Syrian, bgs lb. .13½- .14
Turkish, bgs lb. .13½- .14
Anisic aldehyde, bots., dms lb. 2.35 - 2.60
Annatto seed, whole, bgs lb. .26 - —
powdered, dms lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .85 - .89
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .34½- —
cases, c.l., mines lb. .35 - —
Oxide, bgs., c.l., frt. alld lb. .30 - .36
i.c.l., frt. alld lb. .31½- .37½
Sulphide, 62-64%, bgs., dlvd lb. .36 - .38½
Trichloride, pails, c.l., works lb. .43 - .47
l.c.l., works lb. .45 - .49
solution, cbys., works lb. .29 - .30
Antimony-potassium tartrate (see Tartar emetic).
Antipyrene, NF, dms lb. 2.50 - 2.60
Apomorphine hydrochloride, USP, bots oz.23.40 - 23.90
Areca nuts, powd., bbls lb. .13 - .16
Arecoline hydrobromide, NF, bots, tins oz. 5.00 - 5.75
Arginine monohydrochloride, laevo, dms., 1 kilo lots kilo.77.00 - —
Argols, min. 50%, bgs., shipment ports, per 100 kilos, basis 100% lb.21.50 Nom.
Arnica flowers (true montana), bls. lb. .63 - .66
root, bls lb. 1.45 - —
Arrowroot, powd., bgs lb. .11 - .14
Arsenic metal, lump, bbls., prompt ship't lb. .80 - .90
Trioxide, USP, dms lb. .49 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd. lb. .06½- .07½
Asafetida, cs lb. .32 - .35
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines ton.675.00 - —
Run-of-mine, c.l. (20 tons), mines ton.556.00 - —
3K, c.l., (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons) mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons) mines ton.116.50 - —
5R, c.l. (20 tons) mines ton.110.00 - —
6D, c.l. (30 tons) mines ton.78.00 - —
7D, c.l., (30 tons) mines ton.68.50 - —
7F, c.l. (30 tons) mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l. (30 tons) mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7RF, c.l., (30 tons), mines ton.40.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
8S, c.l. (30 tons), mines ton.37.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, seconds, 300°-390°F. fusing point not uniform, bgs. c.l., Craig, Colo.; Heber City, Utah ton.34.00 - —
Asphalt, gilsonite, black, select, 350°F. fusing point, bgs., c.l., same basis ton.38.00 - —
270°-295°F. fusing point, bgs., c.l., same basis ton.37.00 - —
jet, bgs., c.l., same basis ton.34.00 - —
Manjak, No. 10, crude, dms., works lb. .06½- —
Petroleum, cut-back, tanks, tank-wagon, refinery gal. .09 - —
emulsion, tanks, tank-wagon, refinery gal. .09½- .10
steam-refd., less than 80 penetration, tanks, tankwagon, refinery ton.22.00 - —
80-300 penetration, tanks, tank wagon, refinery ton.21.00 - —
Aspirin (see Acid, Acetylsalicylic.)
Atropine, USP, bots. oz. 9.35 -10.50
Sulphate, USP, bots. oz. 5.25 - 6.30

B

Bacitracin, bulk, 1,000,000,000 or more units, 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root bark, bags lb. .35 - .40
tree bark, bgs. lb. .40 - .45
Barbital, USP, 100-lb. dms lb. 5.00 - —
Sodium, USP dms lb. 5.25 - 5.27
Barium carbonate, precip., bgs., c.l., works ton.85.50 - —
smaller lots, works ton.95.50 - —
Chlorate, kgs., works lb. .14 - .16
Chloride, anhyd. bgs., c.l., works bgs ton.152.00 - —
l.c.l., works ton.162.00 - —
NF, cryst., dms lb. .16 - —
Chromate, bgs., frt. equald lb. .30 - —
Dioxide (see Barium peroxide).
Hydrate, crystals, bgs ton.190.00 -200.00
Iodide, bots. lb. 6.14 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide, grd. dms., c.l., works ton.250.00 - —
l.c.l., works ton.260.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, ctns., c.l. lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. lb. .14 - —
Sulphide, dms., c.l., works ton.71.50 - —
l.c.l., works ton.81.50 - —
Baryte ore, approx. 94%, $BaSO_4$, bulk, mines ton 9.40 -12.50
Barytes, Southern off-color, bgs., mines ton.20.00 - —
93.75% bgs. mines ton.20.00 - —
water grd., paper bgs., c.l., St. Louis ton.37.60 -37.85
ex-whse. N. Y. ton.53.45 -61.75
Bauxite, bulk, mines ton 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna, leaf, bls lb. .35 - .50
root, bls. lb. .35 - .40
Belladonna, leaf, bls lb. .32 - .35
Bentonite, dom., 200 mesh bgs., works ton.12.50 - —
Italian, white, high gel., bgs., 10 tons to c.l., ex dock ton.65.90 - —
5 ton-lots, ex whse. ton.77.80 - —
1 ton lots, ex whse. ton.80.30 - —
low gel, bgs., 10 tons to c.l., ex dock ton.63.40 - —
5 ton-lots, ex whse ton.75.60 - —
1 ton lots, ex whse ton.78.10 - —
Benzal chloride, cbys. works lb .22 - .23½
Benzaldehyde, NF dms lb. .74 - .79
tech., cbys., dms lb. .49 - .54
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .013 - .015
l.c.l., works, gamma unit-lb. .019 - .021
dust, dry distributors, dms., c.l., dlvd., gamma unit-lb. .0185- —
i.c.l., dlvd., gamma unit-lb. .0225- —
wet, distributors, dms., c.l., dlvd., gamma unit-lb. .0280- —
l.c.l., dlvd., gamma unit-lb. .0325- —
Benzidine base, bbls lb. 1.02 - —
Hydrochloride, bbls., frt. alld lb. .94 - —
Benzocaine, dms lb. 3.48 - 3.50
Benzol, pure, nitration, tanks, works, Bethlehem, Pa. gal. .38¾- —
Birmingham district gal. .30 - .38½
Chicago district gal. .30 - .36¾
Cleveland district gal. .30 - .35
Geneva, Utah gal. .30 - —
Johnstown, Pa. gal. .36¾- —
Lackawanna, N. Y. gal. .36¾- —
Lone Star, Texas gal. .37 - —
Lorain, Ohio gal. .30 - —
Minaqua, Colo gal. .35 - —
Philadelphia, Pa gal. .37 - .39
Pittsburgh district gal. .30 - .36
Sparrows Point, Md. gal. .38¾- —
Syracuse, N. Y gal. .37 - —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .38¼- —
Youngstown, Ohio gal. .35 - —
Benzophenone dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt, equald lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .21½- .24¼
l.c.l., same basis lb. .22½- .25¼
Peroxide, pure, 6lb ctns., works lb. .90 - 1.05
Benzyl acetate, t.f.c., cns., dms lb. .85 - 1.05
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms. lb. .72 - .80
Chloride, tech., cbys., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .24 - —
High grade benzyl chloride, 2c. higher.
Cinnamate, cns lb. 3.00 - 4.00
Formate, cns lb. 1.60 - 2.10
Propionate, bots lb. 1.35 - 1.80
Salicylate, bots lb. 1.65 - 1.85
Benzylidinacetone, bots lb. 1.68 - 2.00
Benzylisoeugenol, cns. lb. 8.60 - 9.00
Berberine bisulphate, cns lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Berberis root, bls lb. .32 - .35
Betagammapicoline, 5°, dms., c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
Betamethylnaphthalene, 32°C m.p., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
l.c.l., works lb. .34½- —
Benzoate, 6lb dms., works lb. 3.00 - —
custom contract lb. 1.65 - 1.85
Salicylate, dms lb 5.00 - —
Sulphate, cns lb.35.00 -36.25
Betanaphthylamine, tech., bbls., works lb. 1.05 - 1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.15 - 1.40
Betapicoline, 98%, dms., works lb 1.05 - —
Beth root, bls lb. .40 - .41
Biotin, cryst., bots gram 10.00 - —

The right package can help you SEW UP SALES

You can rely on Continental's "F" style cans to add sales appeal to any chemical product. They're sturdy, handy to use, and our master lithographers make them things of beauty. Available in practically every size you could want: ½-pint, pint, quart, ½-gallon and gallon. To sew up more sales, ask us for the full story on Continental "F" style cans!

Continental also makes steel containers that are tops for shipping chemicals in bulk.

CONTAINER	SUGGESTED USE
Open Head Pails	Adhesives
Closed Head Drums	Anti-Freeze
Utility Cans	Insecticides
50 and 65 Pound Flaring pails	Soap Powder
Small Flaring pails	Dry Chemicals

CONTINENTAL CAN COMPANY

CONTINENTAL CAN BUILDING
100 East 42nd Street New York 17, N. Y.

Eastern Division: 100 East 42nd Street, New York 17 • Central Division: 135 So. La Salle Street, Chicago 3 • Pacific Division: Russ Building, San Francisco 4

Bismuth chloride, jars	lb.	5.11	-	—
Hydroxide, dms	lb.	4.65	-	—
Metal, bxs. ton lots	lb	2.25	-	—
Nitrate, cryst., dms	lb.	2.10	-	—
Oxide, anhydrous, dms	lb.	4.47		5.05
Oxychloride, dms	lb.	4.37		4.42
Phenolsulphonate, fib. dms	lb.	5.22	-	—
Subcarbonate, USP, dms	lb.	3.20	-	—
Subgallate, NF, fib. dms	lb.	3.15	-	—
Subiodide, fib. dms	lb.	5.37	-	—
Subnitrate, NF, dms	lb.	2.65	-	—
Subsalicylate, USP, dms	lb.	3.50	-	—
Bismuth-ammonium citrate, USP, powd., jars	lb.	4.22	-	—
Black, acetylene, bgs., c.l., works	lb.	.16	-	—
cs, l.c.l., ship't point	lb.	.20	-	.22
Bone, dms., t.c.l. frt. alld	lb.	.14¾		.21
Pacific coast bone black prices, 2c. per lb. higher.				
Carbon, channel, heads, bulk, c.l., works	lb	.07	-	—
bgs., c.l., works	lb.	.0740-		—
l.c.l., dlvd. or whse	lb.	.1225-		—
uncompressed, regular, bgs., c.l., works	lb.	.10	-	—
l.c.l., dlvd. or whse	lb.	.10	-	—
furnace, fast extruding, bgs., c.l., works	lb.	.06	-	—
ctns., l.c.l. whse	lb	.10	-	—
high abrasion, bulk, c.l., works.	lb.	.0750-		—
bgs., c.l., works	lb.	.0790-		—
l.c.l., dlvd. or whse	lb.	.1250-		—
high modulus, bgs., c.l., works.	lb.	.0550-		—
ctns., l.c.l., whse	lb.	.0950-		—
semi-reinforcing bgs., c.l., works	lb.	.04	-	—
ctns., l.c.l., whse	lb.	.06	-	—
Charcoal (see C).				
Graphite (see G)				
Iron oxide, pure, bgs., c.l., works	lb.	.1175-		—
l.c.l., works	lb.	.12		—
Lamp, bgs., c.l., works	lb.	.16		.45
Mineral, bgs., works	lb	.0160-		.0675
Black ash (see Barium sulphide).				
Blackberry, root bark, bls	lb.	.32	-	.35
root, bls	lb	.15		.16
Black dyes (see Dyes).				
Black haw, root bark, bls	lb.	.65		.70
tree bark, bls	lb.	.40	-	.42
Black Indian hemp root, bls	lb.	.60	-	.61
Blanc fixe, dry, by-product, bgs., c.l., works	ton.	100.00	-	—
l.c.l. works	ton.	110.00	-	—
direct process, bgs., c.l., works	ton	90.00	-	—
l.c.l., works	ton.	100.00	-	—
N. Y. whse	ton	120.00		130.00
pulp, 66⅔%, bbls., c.l., works	ton.	84.00	-	—
l.c.l., same basis	ton	92.00	-	—
Bleaching powder, dms., c.l., works.	100 lbs	5.02	-	—
l.c.l. works	100 lbs	6.52	-	—
Blood, dried, 16-16½% ammo., bgs., unit-ton.		7.25	-	—
high-grade, unground, 16-17% ammon., bgs., Chicago	unit-ton.	7.00	-	—
soluble, bgs., c.l.	lb.	.17	-	.18½
l.c.l.	lb.	.18	-	.25
Bloodroot, bls	lb.	.55	-	.56
Blue, alkali dry, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis	lb.	2.00	-	—
toner, bbls., litho flushed, same basis	lb	1.10		—
Chinese, bbls., same basis	lb.	.39¼		.45
Cobalt, genuine, bbls. same basis	lb.	4.90		—
imitation (see Blue, ultramarine).				
Copper-phthalocyanine, full strength, bbls., same basis	lb	3.85	-	—
resinated, bbls, same basis	lb.	3.40	-	—
water dispersable	lb.	1.54	-	—
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).				
Methyl violet toner, molybdated, PMA bbls., same basis	lb.	2.00	-	—
tungstated, PTMA, bbls., same basis	lb.	4.05	-	—
Milori, bbls., same basis	lb.	.39¼		.45
Peacock, fugitive, 100% color strength, bbls., same basis.	lb.	.73		—
Potash, CP, bbls., same basis	lb.	.56	-	—
Prussian, insoluble, bbls., same basis	lb.	.39¼		.45
soluble, bbls. same basis	lb.	.48		—
Soda, C.P., bronze, bbls., same basis	lb.	.39¼		.45
Ultramarine, cobalt type, dry or pulp, bbls., same basis	lb.	.28		.30½
regular types, dry, bbls., same basis	lb.	.15		.33½
Victoria toner, molybdic, PMA, bbls	lb.	3.90	-	—
tungstated, PTMA, bbls	lb.	6.35	-	—
Blue, dry colors, dlvd. prices ¼c higher Ala., Fla., Ga., La. (Shreveport, 1¼c); Miss. N. C., S. C., Tenn. Tex. (El Paso 2c.) Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago				
Blue dyes are listed under Dyes.				
Blueflag, root, bls	lb.	.45		.46
Bluestone (see Copper sulphate).				
Blue vitriol (see Copper sulphate).				
Boldo leaves, bls	lb.	.11	-	.13
Bonemeal, raw, 4½% ammon., 50% phos., bgs., works, E	ton.	70.00		Nom.
steamed, works, E	ton.	75.00		—
Bone phosphate, defluorinated (see D).				
of lime (see Calcium phosphate, tribasic).				
precipitate, (see Calcium phosphate tribasic, NF, precip.).				
Bones, raw, bulk, Atlantic ports	ton.	60.00	-	—
Boneset, leaves and tops, bls	lb.	.17	-	.20
Borage flowers, bls	lb.	.40	-	.49
Borax, tech., anhydrous, bgs., c.l., works	ton.	74.50	-	—
ton lots, ex whse, N. Y. or Chi	ton.	120.25	-	—
less ton lots, same basis.	ton.	125.25	-	—
bulk, c.l., works	ton.	67.50	-	—
crystals, 99½%, bgs., c.l., works.	ton.	63.75	-	—
ton lots, ex whse, N. Y. or Chi	ton.	109.50	-	—
less ton lots, same basis	ton.	114.50	-	—
bbls., c.l., works	ton.	68.25	-	—
ton lots, ex whse., N. Y., or Chi	ton.	134.00	-	—
less ton lots, same basis.	ton.	139.00	-	—
bulk, c.l. works	ton.	59.25	-	—
granular, 99½%, bgs., c.l., works.	ton.	37.75	-	—
less ton lots, same basis	ton.	88.50	-	—
ton lots, ex whse., N. Y. or Chi	ton.	83.50	-	—
bbls., c.l., works	ton.	62.25	-	—
ton lots, ex whse., N. Y. or Chi	ton.	108.00	-	—
less ton lots, same basis.	ton.	113.00	-	—
bulk, c.l., works	ton	33.25	-	—
powder, 99½%, bgs., c.l., works	ton.	42.75	-	—
ton lots, ex whse., N. Y. or Chi	ton.	88.50	-	—
less ton lots, same basis	ton.	93.50	-	—

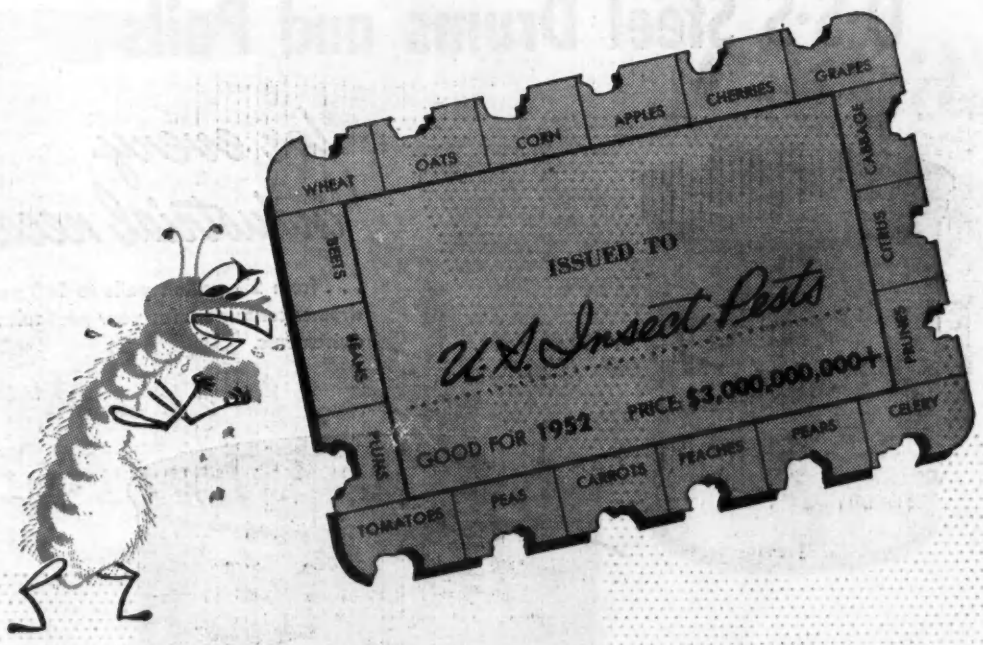
Borax, tech., powd., 99½%, bbls., c.l., works	ton.	67.25	-	—
ton lots, ex whse., N. Y. or Chi	ton.	113.00	-	—
less ton lots, same basis.	ton.	118.00	-	—
bulk, c.l., works	ton.	38.25	-	—
Borax packed in kgs. $45.50 per ton higher than in paper bgs. UPS borax $15 per ton higher.				
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. point	lb.	.161		.221
l.c.l., same basis	lb.	.171		.241
Borneol, cns.	lb.	2.25		2.50
Borontrifluoride gas, cyls., truckload works	lb.	.62	-	—
less truckload, works	lb.	.70	-	—
Brazilwood extract (see Hypernic extract).				
Brimstone (see Sulphur).				
Bromine purified cs, c.l., frt. alld. E of Rockies	lb.	.25	-	—
1,000-lb lots, same basis	lb.	.27	-	—
dms., lead-lined, dlvd	lb.	.25	-	—
Bromoform pharmaceutical grade, bots	lb	1.62		2.60
cbys.	lb.	1.52		—
Bromstyrol, bots	lb	5.40		5.70
Bronze powder, aluminum (see A).				
Gold, litho, cns, dms, works,	lb.	.75		.85
moulding, cns, dms, works	lb.	.85		1.00
printing ink, cns., dms., works	lb	1.05		1.25
radiator, cns, dms, works	lb.	.80		.85
Broomtop, bls	lb.	.30		.35
Brown, iron oxide, pure, bgs., c.l., works	lb.	.1275-		—
l.c.l., works	lb.	.13	-	—
Oxide, metallic, bgs., works	lb	.0375-		—
Sap, crystals, bgs., works	lb.	.12		—
powdered, bgs	lb.	.13	-	—

Brown, sienna, burnt, paper bags., c.l., works	lb.	.04¼-		.15¼
l.c.l., works	lb.	.04½-		.15½
raw, paper, bgs., c.l., works	lb.	.04½-		.13
l.c.l., works	lb.	.04¾-		.13¼
Umber, burnt, American, bgs., c.l., works	lb.	.06	-	—
l.c.l., works	lb.	.06¼-		—
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y.	lb.	.06¼-		—
l.c.l. works	lb.	.06½-		—
raw, American, bgs., works	lb.	.06¼-		.06½
Turkey type bgs., works	lb.	.06¼-		.06½
Vandyke, bbls, works	lb.	.11	-	—
Brucine, cns., 100-oz. lots	oz.	.30	-	.32
Sulphate, NF cns., 100-oz. lots	oz.	.26	-	.29
Bryonia root, bls	lb.	.22		.34
Buchu leaves, bls	lb.	.35	-	.40
Buckthorn bark, bls	lb	.13		.17
cut and sifted, bls	lb.	.18		.23
Berries, bgs	lb.	.80		.90
Burdock root, bls	lb.	.22	-	.26
Butadiene, cyls, refinery	lb.	.22	-	—
tanks, same basis	lb.	.12½-		—
Butane, indust, tanks, group 2	gal.	.05	-	—
Butternut bark, bls	lb.	.23	-	.25
Butyl acetate, fermentation, normal, dms., c.l., frt. alld	lb.	.14¾-		—
l.c.l., same basis	lb.	.15½-		—
tanks, same basis	lb.	.13	-	—
synthetic, normal, dms, c.l., dlvd. E	lb.	.14¾-		—
l.c.l., same basis	lb.	.15½-		—
tanks, same basis	lb.	.13	-	—
secondary, dms, c.l., dlvd. E	lb.	.13¼-		—
l.c.l., same basis	lb.	.14	-	—
tanks, same basis	lb.	.11½-		—

Butyl alcohol (see Alcohol butyl).				
Aldehyde, dms., c.l., dlvd	lb.	.22½-		—
l.c.l., dlvd.	lb.	.23½-		—
tanks, dlvd	lb	.20¾-		—
Chloride, dms., c.l., works	lb.	.37½-		—
l.c.l., works	lb.	.38	-	—
Ether (see Ether butyl).				
Lactate, dms., c.l., frt. alld. E. of Rockies	lb.	.34¾-		—
l.c.l., same basis	lb.	.35¾-		—
tanks, same basis	lb.	.33	-	—
Laurate, dms, works	lb.	.39	-	—
Methacryiate, normal, dms, less truckloads, works	lb.	.70	-	—
Oleate, refd., dms., l.c.l., works	lb.	.36	-	—
Phenylacetate, dms	lb	4.50		4.60
Phthalate (see Dibutyl phthalate)				
Stearate, dms, l.c.l. frt equald	lb.	.24		27¾
Butylamine (see Mono., Di- or Tri-).				
Butyric ether (see Ethyl butyrate).				

C

Cacao butter (see Cocoa butter).				
Cadmium iodide, jars	lb	5.56		6.75
Metal, ingots or sticks, cs., dlvd	lb.	1.50		2.00
Stearate, 50-lb. ctns., l.c.l., frt equald	lb.	1.25	-	—
Caffeine, natural, USP, cryst., dms, 100 lbs. or more	lb.	3.30	-	—
anhydrous, dms.	lb.	3.50	-	—
synthetic, USP, cryst., dms., 100 lbs. or more	lb	3.30		—
anhydrous, dms., 100 lbs. or more	lb	3.50		—
Citrated, USP, dms, 100 lbs or more	lb.	2.25	-	—



Billion Dollar Meal Ticket

YOU'D probably be startled to read a full report on this nation's annual crop losses due to insect pests. Corn borers alone, for example, destroyed over $100,000,000 worth of corn in a single year. The nation's total loss to insects—and it's a loss that's felt right down to *your* dinner table—is estimated at between *three and five* billion dollars for last year!

But there *is* a brighter side to the picture: This great plunder of the nation's larder is being steadily reduced each year, thanks to the chemical insecticides, weed killers and brush killers that are constantly being developed and improved for the American farmer. With just a few pounds of these amazing chemicals, he can free an entire acre of destructive insects or weeds . . . safely, quickly and inexpensively.

As a basic producer of such coal derived farm chemicals as DDT and Parathion insecticides and 2,4-D weed killers, the Pittsburgh Agricultural Chemical Company is proud to be a leader in the nation's progressive agricultural chemical industry.

The same step-to-step production control which makes *Pittsburgh* synonymous with high quality in agricultural chemicals also assures American industry of reliability when it uses the coal-derived products of our other integrated divisions.

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★ Organic Phosphate Insecticides
★ Weed and Brush Killers
★ Cotton Sprays and Dusts
★ Special Agricultural Chemicals

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COAL CHEMICALS • AGRICULTURAL CHEMICALS • PROTECTIVE COATINGS • PLASTICIZERS • ACTIVATED CARBON • COKE • CEMENT • PIG IRON

Calamine, USP—Charcoal, Pinewood

Calamine, USP, dms ..... lb .54 - —
Calamus root, dom., natural, bgs. lb .23 - .30
imported, bleached, bls ..... lb .70 Nom.
stripped, bls lb .30 - .40
Calciferol, cryst., vials, 250 grams or more, works gram .95 - —
25 to 249 grams, works gram 1.00 - —
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit .04¾- —
1,000 to 10,000 standard units, works unit .05¼- —
less than 1,000 standard units, works unit .05¾- —
Calcium acetate, bgs., dlvd 100 lbs. 3.00 4.00
Arsenate dealers, dms., c.l., whse., works, frt. alld on 96 lbs or over lb .10 - .11
t.c.l., same basis lb .11 - .12
Bromide, NF, jars lb .90 - .92
Carbide, standard generator size, dms., c.l., dlvd ton 134.40 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst, purified, bbls., jars lb .28 - .30
flake, 77-80%, paper bgs., c.l. works, frt. equald ton 25.00 - —
liquor, 40%, tankcars, works, frt. alld ton 10.50 - —
pellets, bgs., c.l. works ton 31.25 - —
powder, bgs., c.l., works ton 35.65 - —
solid, 73-75%, dms., c.l., frt. equald ton 23.50 - —
t.c.l., works, same basis ton 32.00 - 60.00
USP, gran., bbls lb .30 - —
Chromate, bgs., frt. equald lb .29½ - .30
Cyanide, dms., dlvd E. of Rockies lb .24 - .50
Calcium gluconate, AA, bbls., dms. lb .65 - .74
USP, bbls., dms lb .58 - .67
Glycerophosphate, NF, fib. dms. lb 2.00 - 2.15
Hydride, dms., works lb 2.20 - 4.00
Hydrochlorite, high test, cns., cased (45 lbs.) dlvd, E. of Rockies cs 21.00 - 23.00
100-lb. lots, same basis dm 25.25 - 29.85
Hypophosphite, dms., ton lots or less lb .90 - .93
Iodide, jars lb 4.32 - —
Lactate, USP dms., 10,000-lb. lots or more, works lb .40 - —
smaller lots, works lb .41 - .48
Manganate, USP dms., works lb 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt equald lb .25¾- —
Nitrate, tech., bbls., works lb .10 - .12
fertilizer grade, bgs., c.l., Los Angeles ton 49.25 - —
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram .07½- —
Para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt. adjusted lb 7.00 - —
smaller lots, same basis lb 7.05 - 7.50
Phenolsulphonate dms lb .70 - —
Phosphate, dibasic USP bgs., c.l., 100 lbs 7.10 - —
t.c.l. 100 lbs 7.60 - 7.95
feed grade, bgs., c.l., works ton 90.00 - —
t.c.l., bgs., works ton 95.00 - —
monobasic, bgs., 10,000-lb. lots, works, frt equald lb .0625- —
smaller lots, same basis lb .0675- —
tribasic, precip., NF, bgs., c.l., works 100 lbs 7.10 - —
t.c.l., works 100 lbs 7.45 - —
Calcium phytate, bgs., works lb .20 - —
Resinate, precip., dms., frt. alld., works lb .37¾- —
Silicate, hydrated, bgs., c.l., works, lb .06 - —
t.c.l., works lb .06½- —
Stearate, ctns., c.l. lb .35 - —
ton lots lb .36 - —
less ton lots lb .37 - —
Sulphate (see Gypsum).
Calcium-strontium sulphide, phosphorescent steel pails, 100 lb. to 999 lb. lots, works lb 2.60 - 3.50
fine particle size, same basis, works lb 2.65 - 3.75
Calendula flowers, bls lb .50 - .65
Calomel, USP powd. dms lb 4.02 - 4.05
Camphene, 46° m.p., dms., incl., c.l., works lb .1930- —
t.c.l., same basis lb .1980- .2115
tanks, same basis lb .1660- —
Chlorinated 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb 3.00 - 3.12
natural, USP powd. 100-lb lots, bbls lb .50 - .52
tablets, 1-oz., ½-oz., cs lb .63 - .65
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots lb .55½- —
smaller lots lb .56 - .66
USP gran. powd. bbls. 2,000-lb lots lb .57 - —
1,000-lb. lots lb .58 - —
smaller lots lb .59 - —
tablets, tins, 2,000-lb. lots lb .90 - —
1,000-lb. lots lb .91 - —
smaller lots lb .92 - —
Canada balsam (see Fir balsam).
Canella alba bark, bls lb .25 - .33
Cantharides, Chinese, cs lb 1.05 - 1.20
powd. bxs lb 1.15 - 1.40
Russian, bgs lb 2.50 - 3.25
powd. bxs lb 2.90 - 3.50

Capsicum (see Pepper, red).
Oleoresin, NF, from domestic pepper, per, dms. lb 4.25 - 5.75
from African pepper, dms. lb 4.75 - 6.25
Caramel coloring, NF, bbls gal 1.05 - 1.20
Caraway seed, Dutch, bgs lb .09¾- .10
Carbazole, 97%, bbls., ton lots, works lb 1.25 - —
steel-dms., same basis lb 1.20 - —
Carbinol, methylisobutyl, dms., c.l., dlvd lb .13¼- —
t.c.l., same basis lb .16 - —
tanks, same basis lb .13¼- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt alld competitive points lb .0700- —
t.c.l., same basis lb .0800- —
5-gal. dms., c.l., same basis lb .0950- —
t.c.l., same basis lb .1050- —
tankcars, same basis lb .0490- —
Dioxide, industrial, wholesale, cyl lb .08 - —
Tetrachloride, CP, dms., works lb .1097- .1197
NF, chys lb .17 - .18
tech., dms., c.l., E. of Rockies, frt. alld lb .0847- —
W of Rockies, f.o.b stock-points lb .0897- —
t.c.l., E. of Rockies, frt alld. lb .1047- —
W of Rockies, f.o.b stock-points lb .1107- —
tanks, E. of Rockies, frt. alld. lb .0772- —
W of Rockies, f.o.b stock-points lb .0822- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, bleached, cs lb 3.75 - 4.00
medium, cs lb 3.30 - 3.40
decorticated, Alleppey, cs lb 2.15 - —
Guatemalan, cs lb 2.25 - 2.30
Mangalore type, cs lb 2.25 Nom.
green, Alleppey, bgs., afloat lb 1.80 - —
Ceylon, bgs lb 1.90 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lbs. or more, dvld lb 5.50 - —
smaller lots, dlvd lb 5.65 - 6.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm .50 - —
in carrot oil 5,000,000 to 8,000,000 A units per lb., dms., works, million units .18 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works, million units .30 - —
Carvol, bots lb 7.50 - 7.75
Cascara sagrada bark, bulk lb .35 - .36
Casein, dom., acid-precip, standard, bgs., 10,000-lb lots or more, ship't point lb .28 - .32
premium bgs., 10,000-lb. lots or more, ship't point lb .36½- .40
imported, Argentine, acid-precip., grd., 100-kg. lots or more, ex dock lb .19½- .21
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J. lb .22 - —
ton lots, same basis lb .23 - —
dm. lots, same basis lb .25 - —
Cassia, Batavia, cuttings, bls lb .16 - .16½
longstick lb .20 - .20½
shortstick, bls lb .17 - .17½
China, Canton, Kwangsi rolls, select, cs lb .26 Nom.
broken, bls lb .23 - —
Honan, Yunnan, scraped, bls lb .28 Nom.
unscraped, bls lb .27½ Nom.
Saigon, broken, bls lb .40 - .40¼
medium, bls lb .44 - .45
thin, bls lb .50 - .52
Cassia buds, bgs lb .65 - .70
Fistula, bskts lb .25 - .30
Castor beans, bgs, f.o.b. Brazilian ports long ton 195.00 Nom.
Oil (see Oil, castor)
Pomace, bgs., c.l., works ton 37.25 - —
Castoreum, artificial, cns lb 9.00 - 9.25
natural, cns lb 7.00 - 30.00
Catechol, CP, cryst., fib. dms., works lb 2.17½- —
resublimed dms., works lb 4.29½- —
Catnip leaves, southern, bls lb .65 - .70
Celery seed, French, bgs lb .37 - .37½
Indian, bgs lb .27 - .27½
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate flake, ctns., dlvd lb .40 - .45
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb .52 - —
t.c.l., same basis lb .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.l., frt. alld lb .48 - —
t.c.l., same basis lb .49 - .55
reprocessed black, dms., l.c.l., same basis lb .43 - .49
16% butyryl content, standard cartons, works lb .64 - —
17% butyryl content, standard cartons, works lb .54 - —
27% butyryl content, standard cartons, works lb .64 - —
38% butyryl content, low viscosity, standard cartons, works lb .68 - —
medium viscosity same basis lb .54 - —
50% butyryl content, standard cartons, works lb .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld lb .64 - .71
reprocessed black, dms., l.c.l., same basis lb .52 - .58
Triacetate, flake, ctns., works, frt. alld. on 100-lb. lots or more lb .50 - —
Cerium hydrate, 74% CeO_2, fib. dms., 50-lb. lots or more lb 1.44 - —
77% CeO_2, fib. dms., 50-lb-lots or more lb 1.60 - —
Oxalate, NF, bbls., bgs., works lb No prices.
Oxide, optical grade, bgs., 50-lb. lots or more, works lb 1.85 - 2.00
smaller lots, works lb 1.90 - 2.10
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l. works lb .0293- .033
t.c.l., ex whse lb .0395- .05
paint, bgs., c.l. works ton 40.00 - —
papermakers, bgs., c.l. works ton 32.50 - 40.00
rubber makers, bgs., c.l., works ton 55.00 - 60.00
Chamomile flowers, Hungarian and Hungarian style, cs lb .90 - .95
Roman, cs lb .80 - .90
Charcoal, activated, NF, fib. dms., c.l., works lb .25 - .32
5-ton lots, works lb .26½- .32¼
smaller lots, works lb .27 - .30
Bone (see Black, bone)
Hardwood, briquets, bgs., c.l., works ton 77.00 - 80.00
bulk, c.l., works ton 70.40 - —
granular, bgs., works ton 77.00 - —
Pinewood, gran., powd., bgs., c.l., works, South ton 43.50 - —
t.c.l., works, South ton 43.50 - 53.50
lump bgs., c.l., works, South ton 40.00 - —
t.c.l., works, South ton 50.00 - 60.00
bulk, c.l., works, South ton 33.50 - —

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USS

UNITED STATES STEEL

Chestnut extract, 55% tannin, bbls., c.l., works lb. .0510- —
i.c.l., works lb. .0543- —
tanks, works lb. .0425- .0440
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
i.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
i.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - 1.40
Chloramine T, NF, bbls. works lb. .75 - 1.00
Chlordane, agricultural, dms., pails, c.l., frt. alld lb. .65 - —
i.c.l., frt. alld lb. .66 - .73
refined, dms., c.l., frt. alld lb. .75 - —
i.c.l., frt. alld lb. .76 - .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld. lb. .14 - —
i.c.l. lb. .14¼- —
70%, dms., c.l., same basis lb. .18 - —
i.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
i.c.l., works lb. .57 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
i.c.l., works lb. .61 - .62
Chlorine, liquid, cyls., c.l. lb. .08¾- —
i.c.l., N. Y. stock points lb. .10¼- —
tanks, single units, works, frt. equald. 100 lbs. 2.70 - —
W. of Rockies 100 lbs. 2.82½- —
multiple units, 3 cars, works, frt.equald. 100 lbs. 3.20 - —
2 cars, same basis 100 lbs. 3.80 - —
1 car, same basis 100 lbs. 4.40 - —
Chloroform, tech., dms., c.l., dlvd. E. lb. .18 - .183
i.c.l., same basis lb. .192 - .20
tanks, same basis lb. .17 - .171
USP, dms lb. .30 - .35
Chloro(4)-2-Toluidine, bbls. lb. 1.38 - —
Chlorophyll oil, soluble, 4%, not fixed, tins, pails, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.25 - —
sodium-copper, dms., pails, aqueous sol., 4%, works. lb. 3.75 - —
8%, pails, dms., works. lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
concentrated, dom., 50%, dms., works, basis 100% lb. 56.50 -60.00
75%, dms., works, basis 100% lb. 60.00 - —
90%-100%, dms., works, basis 100% lb. 60.00 -67.00
imported, 60%, dms., basis 100% lb. 60.00 - —
75%, dms, basis 100% lb. 60.00 - —
90%, dms., basis 100% lb. 60.00 - —
Chloropicrin, com'l, bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs. same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 8.25 - 9.50
Choline bitartrate, fib. dms., frt. adjusted lb. 1.70 - 1.95
Chloride, fib dms., same basis lb 1.70 - 1.95
Dihydrogen citrate, fib. dms., same basis lb. 1.70 - 1.95
Chromium acetate, powd., 72% Cr., bbls., works lb. No stocks.
solut., 7½% bbls. works lb. .08½ - —
cbys. works lb. .10¼ - —
8½%, bbls. works lb. .09 - —
cbys. works lb. .10¾ - —
Fluoride, bbls. works lb. .44½ - —
Green (see Green, chromium oxide).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls lb. .49 - —
Trioxide, NF bots lb. .82 - .89
Yellow, (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 6.50 - 8.00
Cinchona bark, NF, red, broken, bgs lb. .28 - .30
yellow, broken, bgs lb. .28 - .30
Cinchonidine, cryst., cns. 100 oz.-lots oz. .71 - .72
Sulphate, cns., 100 oz.-lots oz. .37 - .40¼
Cinchonine, cryst., cns., 100 oz.-lots. oz. .52 - .57
Sulphate, NF, cns., 100 oz.-lots oz. .27 - .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.03
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic)
Aldehyde, NF cns. dms lb 1.03 - 1.30
Cinnamon, Ceylon, No. 2, bls. lb. .25½- .26
"0000", bgs. lb. .36 - —
Citral, bots., cns. lb. 3.20 - 3.75
Citronellal, bots., dms lb. 1.60 - 2.00
Citronellol, bots., dms. lb. 1.80 - 2.40
Civet, artificial, bots lb. 13.75 -15.00
natural, bots oz. 3.50 - 7.00
Clay, ball, dom., crushed, bulk, Tennessee ton. 10.00 -12.00
airfloated, bgs., c.l., Tennessee. ton. 19.50 - —
purified, bgs., c.l., Tennessee. ton. 20.50 - —
imported, lump, bulk, Atlantic port, long ton. 27.00 -30.00
airfloated, bgs., c.l., Atlantic port, long ton. 43.00 -45.00
pulverized, bgs., i.c.l., all ports ton. 55.00 - —
97%, 200 mesh, bgs., c.l., Georgia ton. 54.00 -56.00
China, dom., dry-grd., air-float, 99%, 300 mesh bgs., c.l., works ton. 11.50 -14.50
i.c.l., works ton. 35.50 - —
bulk, c.l., works ton. 8.50 -11.50
200 mesh, bgs., c.l., works ton. 13.50 -17.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 -40.00
powd., bgs., c.l., ex dock. net ton. 50.00 - —
i.c.l., ex whse. net ton. 60.00 -65.00
Clove, Madagascar, bls. lb. 1.62 Nom.
Zanzibar, bls. lb. 1.55 - —
Clover tops, red, bgs. lb. .45 - .50
CMC, purified, high vis., (see Gum, cellulose).
standard low vis., bgs., 23,000 lbs. or over, works, frt. alld. lb. .60 - —
smaller lots, same basis lb. .62 - —
medium vis., bgs., 23,000 lbs. or over, works, frt. alld. lb. .57 - —
smaller lots, same basis lb. .59 - —
technical, high vis., 58% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis lb. .56 - —
2,000 to 20,000 lbs., dlvd. E. lb. .58 - —
less than 2,000 lbs., dlvd. E. lb. .62 - —
low vis., 62% purity, bgs. or fib. dms., c.l., dlvd. E., basis 100% lb. .41 - —
i.c.l., dlvd. E., basis 100% lb. .43 - —
58% purity, bgs., c.l., dlvd. E. basis net weight lb. .34 - —
i.c.l., dlvd. E lb. .36 - —
47½% purity, bgs., c.l. dlvd., E., basis 100% lb. .41 - —
i.c.l., dlvd. E. lb. .43 - —

CMC, i.c.l., low-vis., 36½% purity, bgs., c.l., dlvd. E., basis net weight lb. .13½- —
i.c.l., dlvd E lb .20 —
Prices for technical grades of CMC West of the Rocky Mountains are 1c. per pound less than delivered prices.
Coaltar, coal gas, water gas, crude, resale dms. c.l. ex-whse. gal. .24 - .27½
i.c.l. ex-whse gal. .26 .28½
tanks, ex whse gal. .14 15
refined, resale, dms., c.l., ex-whse gal. .25 .28½
i.c.l. ex-whse gal. .27 .29½
tanks, ex-whse gal. .15 .16
Cobalt acetate, 23.7% bbls., dlvd lb. 1.14¾- —
Carbonate, 48% powd., bgs., dlvd lb. 1.92½- —
Chloride, 24.2% Co. kgs., dlvd., lb. 1.10½- —
Hydrate, 60-61% Co., bbls., dlvd. lb. 2.52 - —
Linoleate, fused, 8½% Co., dms. lb. .64½- —
liquid, 6% Co., dms lb. .53¼- —
Metal, 97.99%, kgs., ex-whses lb. 2.40 - —
Naphthenate, liq., 6% Co., dms., lb. .42¾- —
Nitrate, 20.1% Co., bbls., dlvd lb. .99¼- —
Oxide, black, 70-71% Co., kgs lb. 1.76 - —
Phosphate, powdered, 32.1% Co., kgs., dlvd lb. 1.57¾- —
Resinate, fused, 3% Co., dms lb. .27 - —
Sulphate, cryst., 21% Co., dms., dlvd lb. .81¾- —
monohydrated, 33% Co., dms. dlvd lb. 1.28½- —
Cocaine, USP, cns., 100-oz. lots oz. 15.00 - —
Hydrochloride, cns. 100-oz. lots oz. 11.75 - —
Cochineal, USP gray, bgs lb. .68 - .90
Cocillana bark, bgs lb. .16 - .17
Cocoa butter, bgs lb. .76 - —
Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots. oz. 11 75 - —
Phosphate, USP cns., 100-oz. lots oz. 10.25 - —
Sulphate, USP, cns., 100-oz. lots. oz. 10 75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb .22 - .25
Blue, bls lb .17 .18
Colchicine, USP, bots., cns. oz. 65.00 -70.00
Colchicum root, bls lb 45 60
Seed, bgs lb 80 1.10
Collodion, USP, dms lb .32½ - —
flexible, USP, dms lb .34 - —
Colocynth pulp, bls lb .30 - .35
Colombo root, bls., to arrive lb .22 - —
Coltsfoot leaves, bgs lb .25 .30
Condurango bark, bgs lb 17 .18
Copaiba, balsam, cns., dms lb .90 - 1.75
Copper acetate, bbls., c.l. works lb .31¾- —
i.c.l., works lb .35¾- —
Carbonate 55% bgs. works lb .22 - .23½
Chloride, anhyd., bbls., works lb .34½- —
crystals, bbls. works lb .22¾- —
Citrate, USP 5-lb bots oz. 2.40 —
Cyanide, tech., bbls., over 1,000-lb. lots or more lb .613 - —
less than 1,000 lbs. lb .633 - —
Gluconate cns., dms lb 3.00 3.24
Hydrate, dms. frt alld. E. Miss. lb .38 .38½
Metal, electrolytic lb .24½ .27½
Naphthenate, liquid, 8% Cu, dms., frt. alld lb .22¾- —
Nitrate, tech. cryst. bbls., works. lb .25¼- —
Oleate, solid, 9% Cu, dms., works. lb .45 - —
Copper oxide, black, bbls., works lb .39 - .40
red, com'l, bbls., c.l., works lb .43 - .45½
i.c.l., works lb .44 .45½
Oxychloride-sulphate, bgs., frt. alld lb 34¼ Nom.
Quinolinolate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb 27½ —
Stearate, ton lots, works lb 38½ .39½
less ton lots, works lb 40½ —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs. 8.95 9.35
i.c.l. 100 lbs 9 20 10 95
CP, cryst., gran., bbls works lb 1615 —
monohydrated 35% dms., c.l. works 100 lbs 14 95 15 50
tribasic, dealers, bgs., c.l., works, frt. alld. 100-lbs. 25.60 - —
i.c.l. works 100 lbs 27 10 —
USP, gran. cryst., dms lb 1615 2500
Undecylenate, dms lb 2 90 3.00
Copperas, gran., bgs., c.l., works ton 28 50 - —
i.c.l., dlvd Metro area 100 lbs 3 00 - —
bbls., c.l. works ton 34 00 - —
bulk c.l. works ton 21 00 - —
Copra, Atlantic Gulf ports, c.i.f ton. 230.00 - —
Pacific ports, c.i.f. ton. 225.00 - —
Coriander seed, Argentine, bgs lb. .08½ Nom.
Czech, bgs lb 07 07½
Moroccan, bgs lb. .05½- .06
Roumanian, bgs lb. .08 - .08¼
Corn sugar tanners, chipped, paper bgs., c.l. 60,000 lbs. min 100 lbs. 7.30 - —
Syrup, 42°, dms., c.l. 100 lbs. 7.32 - —
i.c.l. 100 lbs. 7.47 - —

clean as a whistle

SODIUM BICHROMATE
SODIUM CHROMATE
POTASSIUM BICHROMATE
CHROMIC ACID

Smooth - Stain-free - Spotless—There's nothing like a dip to brighten and improve the appearance. This applies not only to a four-year-old, but also to metal. For junior it's soap—for metal it's Mutual's Chromium Chemicals.

Leading brass manufacturers find a Sodium Bichromate dip, with sulfuric acid, to be the most effective treatment for removing stains resulting from annealing. A metal surface uniformly clean, bright and pleasing in appearance emerges from this bath.

Many other metal treatments employ Bichromate. Used on aluminum and magnesium it contributes to the development of corrosion-resistant films. Mixtures including Bichromate or Chromic Acid are used to form protective and paint-base coatings on iron, steel, zinc, cadmium, aluminum and magnesium.

Mutual's Research and Development Department has a wealth of technical data on the use of Chromium Chemicals in metal treatment. Inquiries are welcome.

MUTUAL CHEMICAL COMPANY OF AMERICA
Mutual Chromium Chemicals
270 MADISON AVENUE NEW YORK 16, N. Y.
PLANTS: BALTIMORE — JERSEY CITY

Corn Silk—Dihydrazine Sulphate

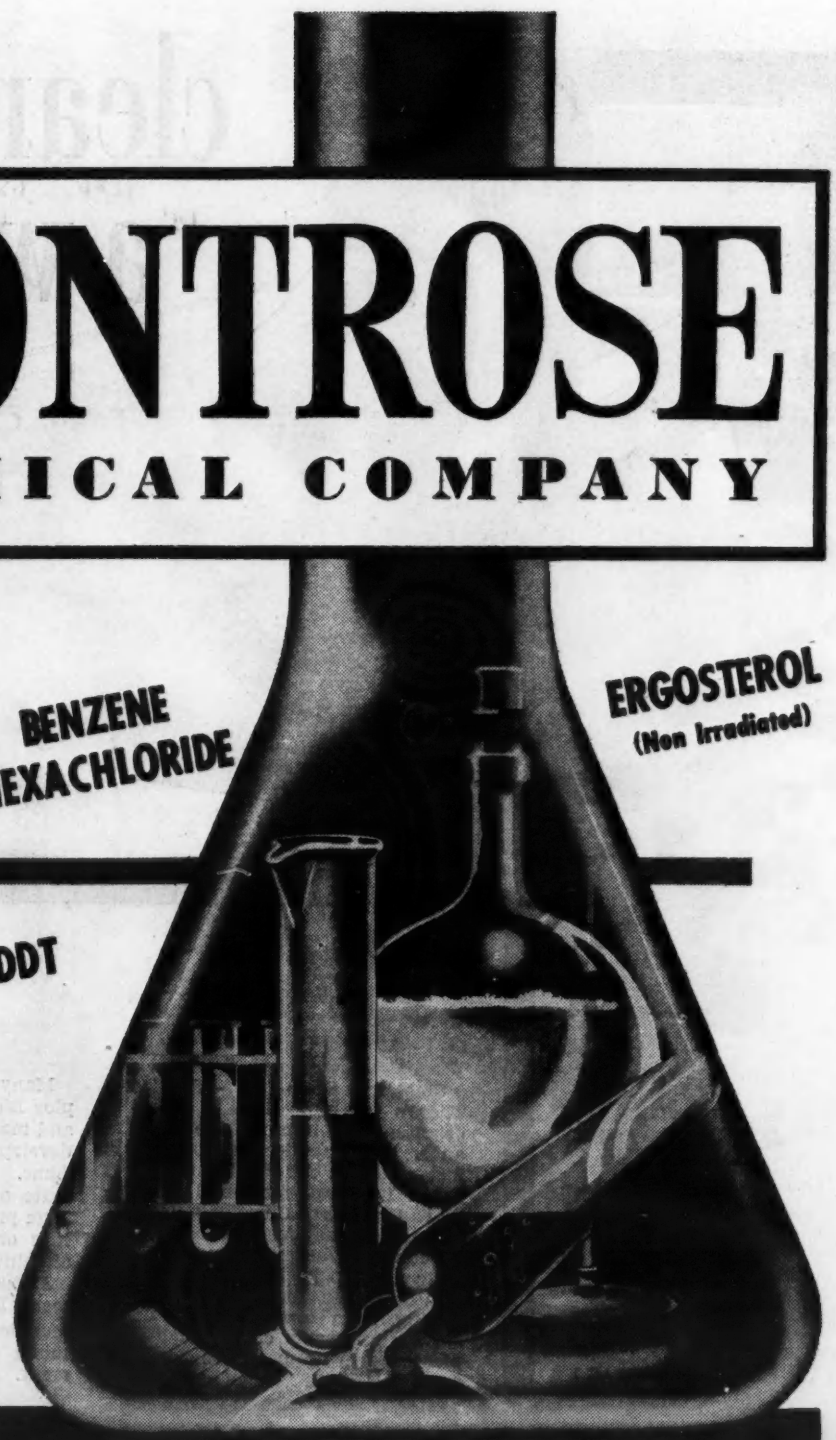
Cornsilk, bls ..... lb. .12 - .14
Corrosive sublimate, NF, cryst., dms., 50-lb. lots or more lb. 3.68 - —
gran. powd., dms., 50-lb. lots or more lb. 3.53 - —
Cottonroot bark, bls ..... lb. .26 - .28
Cottonseed hull ash, 32-36% potash bgs., dlvd., unit-ton. 1.50 - —
Meal, 41% protein sacked, Memphis .ton.78.00 -80.00
Coumarin cryst, NF, cns ..... lb 2.94 - 3.15
powd cans ..... lb 3.20 3.25
Cramp bark NF, bls ..... lb .80 .90
Cranesbill root, bls ..... lb. .40 - .41
Cream of tartar, NF, dom., gran. or powd., dms., c.l. lb. .32 - —
bbls., 5,000 lbs. one shipment lb. .32½- —
smaller lots, bbls., kgs. lb. .33 - .36
imported, kgs ..... lb. .25¾- —
Creosote carbonate, NF, bots., cbys. lb. 2.80 - 2.90
Coaltar crude, tanks, works, frt. adjusted gal. .20 - —
solution, 80%, tanks works, gal. .188 - —
refined, dms., c.l., works gal. .35 - —
l.c.l. same basis ..... gal. .41 - —
tanks, same basis ..... gal. .27 - —
Wood, beechwood, cbys., dms. lb. 1.35 - 1.40
hardwood, bots., cbys ..... lb. 1.05 - 1.10
pinewood, dms ..... gal. .31 - .32
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt equald. lb. .133 - —
l.c.l., same basis ..... lb. .136 - —
Cresol, tech., 50% below 204°C., dry, above 207°C., wide distillation range, ret. dms., c.l., same basis ..lb. .155 - —
l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .120 - .145
USP, non-ret. dms., c.l., same basis ..lb. .143 - —
l.c.l., same basis ..... lb. .146 - —
ret. dms., c.l., same basis ... lb. .16½- —
l.c.l. same basis ..... lb. .17 - —
tanks, same basis ..... lb. .130 - .155
Crotonaldehyde, 91-93%, l.c.l., works. lb. .24¼- .26
Cryolite, nat., industrial, bgs., c.l., works 100 lbs.10.50 - —
l.c.l., works ..... 100 lbs.11.25 -11.50
Insecticide, dealers, bgs., c.l., dlvd 100 lbs.15.25 - —
l.c.l., dlvd, ... 100 lbs.16.25 - —
Cube root, powd., 5% rotenone, bgs., works lb. .23 - .25
Cuneh berries, XX NF, bgs ... lb. .45 - .52
powd. cs ..... lb. .55 - .60
Culvers root, bbls ..... lb. .60 - .61
Cumene, dms., c.l., works ..... lb. .12 - —
l.c.l. works ..... lb. .14 - —
tanks, works ..... lb. .11 - —
Cumin seed, Iranian, bgs ..... lb. .14¾- .15
Moroccan, bgs ..... lb. .22 Nom.
Syrian, bgs ..... lb. .17 Nom.
Turkish, bgs ..... lb. .14½- .14¾
Cutch extract 55% tannin bgs. ex dock, duty extra lb. .06¼- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran. bgs., Niagara Falls, Ont., contract ton.62.50 - —
pulv., 21% N, bgs., works unit ton. 2.90 - —
Cyclohexane, tech., 85%, dms., c.l., dlvd. lb. .11 - —
l.c.l., dlvd. ..... lb. .11¼- —
tanks, dlvd. ..... lb. .09¼- —
Cyclohexanol, tech., dms., c.l., works, frt. alld. E. lb. .24¾- .37¼
l.c.l., works, same basis. lb. .25¼- .36¼
tanks, works, same basis. lb. .23¼- .36¼
Cyclohexanone, tech., dms., c.l. lb. .26½- .30
l.c.l., works ..... lb. .27 - .31
tanks, works ..... lb. .28 - .29
Cyclohexylamine, dms., c.l., works. lb. .41½- —
l.c.l., works ..... lb. .42½- —
tanks, works ..... lb. .40 - —
Cyclopropane, CP, 2 lb. cyls., works, cyl.48.00 - —
8 oz. cyls., works ..... cyl.12.00 - —
USP, hospitals, cyls., 40 gal. lots. gal. .38 - —
100-gal. lots ..... gal. .37 - —
200-gal. lots ..... gal. .36 - —

D

2, 4-D bbls., c.l., works, frt. equald. lb. .61 - —
l.c.l., same basis ..... lb. .67 - —
Isopropyl ester, dms., c.l., works. lb. .67 - —
l.c.l., works ..... lb. .72 - .74
Damiana leaves, bls ..... lb. .28 - .30
Dandelion root, bls ..... lb. .45 - .50
DDD, tech., fine grd. fib. dms., c.l., works. lb. .60 - —
l.c.l. works ..... lb. .61 - —
DDT, fiber dms., c.l., works, frt. equald. lb. .26 - .30
smaller lots, same basis. lb. .27 - .29
Decanol, normal, tech., dms., c.l., dlvd. lb. .419 - —
l.c.l., dlvd ..... lb. .439 - —
tanks, dlvd ..... lb. .394 - —
Deertongue leaves, bls ..... lb. .42 - .43
Defluorinated phosphate, 13% P, paper bgs., works ....ton.49.25 - —
18½% P, paper bgs., works ton.62.75 -63.75
Rock, 14½% P, paper bgs., works .ton.50.00 - —
Degras, common, bbls ..... lb. .11 - .12
crude, centrifugal, bbls ..... lb. .18 - .20
neutral, less 2% ffa, bbls ..... lb. .30½- —
over 2% ffa., bbls ..... lb. .30 - —
Derris root, 5% rotenone powd., bbls lb. .33 - .38
Desoxyephedrine hydrochloride, dextro, bots lb.25.00 - —
dextro-laevo, bots lb 7.50 - —
Dextrin, corn, gum, paper bgs., c.l., N.Y. ..100 lbs. 8.95 - —
l.c.l. ..... 100 lbs. 9.10 - —
canary paper bgs, c.l. ....100 lbs. 8.69 - —
l.c.l. ..... 100 lbs. 8.84 - —
dark, paper bgs., c.l. ....100 lbs. 8.79 - —
l.c.l. ..... 100 lbs. 8.94 - —
white, paper bgs., c.l. ....100 lbs. 8.53 - —
l.c.l. ..... 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. ..... lb. .10½- .11
Dextrose, USP dms ..... lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb 4.50 4.60
laboratory grade, bots 100 grams. 4.50 - —
tech., bots, works lb 3.00 - —
Diamyl ether (see Ether, amyl).
Dianisidin, dms lb 1.90 - —
Diatomaceous earth, dom., bgs. c.l., Atlantic coast ton.52.00 -55.00
California ..... ton.42.00 -45.00
l.c.l., ex whse ..... ton.85.00 -90.00
purified, bgs., c.l., Atlantic coast ton.65.00 - —
California ..... ton.53.00 - —
l.c.l., ex whse ..... ton.95.00 -100.00
Atlantic coast ..... ton.95.00 -100.00
Mexican, white, bgs., c.l., Atlantic coast lb. .03 - —
l.c.l., Atlantic coast lb. .06 - —
Dibenzyl sebacate, CP, dms., c.l., works lb. .92 - —
l.c.l. works ..... lb. .93¾- —
tanks, works ..... lb. .91 - —
Dibutyl phthalate, dms., c.l., dlvd., E lb. .35¾- —
l.c.l., same basis ..... lb. .36¾- —
tanks, same basis ..... lb. .34 - .34½
Sebacate, CP, dms., c.l., works. lb. .92 - —
l.c.l. works ..... lb. .93 - —
tanks, works ..... lb. .90¼- —
tech., dms., c.l., works ..... lb. .90 - —
l.c.l. works ..... lb. .91 - —
tanks, works ..... lb. .83¼- —
Tartarate, dms., works, frt. alld. lb. .71 - —
Dibutylamine dms., c.l., frt. alld. E. of Rockies lb. .54¾- —
l.c.l., same basis ..... lb. .55¾- —
tanks, same basis ..... lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .36¾- .38¾
l.c.l., dlvd ..... lb. .37 - .39¾
tanks, dlvd ..... lb. .35 - .37
Sebacate, dms., c.l., works... lb. .78½- —
l.c.l. works ..... lb. .79½- —
tanks, works ..... lb. .76¾- —
Dichloroaniln, dms., works ..... lb. .75 - .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works ..... lb. .05¾- —
tanks, works ..... lb. .04¼- —
Dicyclohexylamine, dms. c.l., works. lb. .46 - —
l.c.l. works ..... lb. .46¾- —
tanks, works ..... lb. .44½- —
Dicyclohexylphthalate, fib dms., c.l., works lb. .60 - —
l.c.l. same basis lb. .61 - —
Dieldrin, dms., frt. alld ..... lb. 2.60 - —
l.c.l., frt. alld ..... lb. 2.40 - —
Diethanolamine dms., c.l., dlvd. E. lb. .29¼- —
l.c.l. same basis ..... lb. .30¼- —
tanks, same basis ..... lb. .27½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .46¾- —
l.c.l., same basis ..... lb. .47¾- —
tanks, same basis ..... lb. .45 - —
Maleate, dms., c.l., dlvd ..... lb. .50 - —
l.c.l. dlvd ..... lb. .48¼- —
tanks, dlvd ..... lb. .48½- —
Oxalate, dms., c.l., frt. alld... lb. .41¾- —
l.c.l. same basis ..... lb. .42¾- —
tanks, same basis ..... lb. .40 - —
Phthalate, dms., c.l., dlvd ..... lb. .26¾- .31¼
l.c.l., dlvd. ..... lb. .27¾- .32¼
tanks, dlvd. ..... lb. .25 - .29¼
Sulphate, dms., c.l., works ..... lb. .18¾- —
l.c.l works ..... lb. .19¼- —
tanks, works ..... lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .54¼- —
l.c.l., same basis ..... lb. .55¼- —
tanks, same basis ..... lb. .52½- —
Diethylaniliin, dms lb. 42 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethyleneglycol, dms., c.l., dlvd. E. lb. .20¼- —
l.c.l. same basis ..... lb. .21¼- —
tanks, same basis ..... lb. .18½- —
Borihorate, dms. l.c.l ..... lb. .30½- —
Diethylether, dms. c.l., works lb. .46½- —
l.c.l., works .. lb. .47 - —
Monobutylether, dms., c.l., works. lb. .28¾- —
l.c.l., works ..... lb. .29¼- —
tanks, works ..... lb. .27 - —
Monobutylether acetate, dms., c.l., works lb. .30 - —
l.c.l., works lb. .30¼- —
Monoethylether, dms., c.l., dlvd lb. .20¾- —
l.c.l., dlvd ..... lb. .21½- —
tanks, dlvd ..... lb. .19½- —
Monoethylether acetate, dms., c.l., works lb. .26¾- —
l.c.l., works ..... lb. .27¼- —
Monomethylether, dms., c.l., works. lb. .24¾- —
l.c.l., works ..... lb. .25¼- —
tanks, works ..... lb. .23½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis ..... lb. .44 - —
tanks, same basis ..... lb. .41¼- —
Diethylethanolamine, dms., c.l., dlvd lb. .67½- —
l.c.l., same basis ..... lb. .68½- —
tanks, same basis ..... lb. .65¾- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo.115.00 -150.00
1 kilo lot ..... kilo.135.00 -150.00
Digitalis leaves, USP, dom., dms. lb 1.10 1.15
Digitoxin, USP, bots ..... gram. 6.50 - 8.00
Diglycol laurate, dms ..... lb. .30½- .34
Oleate, dms ..... lb. .28½- .29¼
Stearate, dms ..... lb. .25 - .25¾
Dihexyl sebacate, dms., c.l., works. lb. .76½- —
l.c.l., works ..... lb. .77½- —
tanks, works ..... lb. .74¾- —
Dihydrazine sulphate, dms., works lb. 1.10 1.25

MONTROSE
CHEMICAL COMPANY

TRICRESYL PHOSPHATE
BENZENE HEXACHLORIDE
ERGOSTEROL (Non Irradiated)
DDT
TRICHLORO-BENZENE
LINDANE



SALES AGENTS R. W. GREEFF & CO., INC.
10 ROCKEFELLER PLAZA, NEW YORK, N. Y.
TRIBUNE TOWER, CHICAGO, ILLINOIS

Dihydrostreptomycin, either hydrochloride or sulphate, bulk, gram .21 - —
Dihydroxydichlorodiphenylmethane, pure, dms lb. 2.80 - 3.00
tech., dms lb. 1.15 - 1.25
Di-isobutyl ketone, dms., c.l., dlvd lb. .15¼-
l.c.l., dlvd lb. .16¼- —
tanks, dlvd lb. .13½- —
Phthalate, dms., c.l., dlvd. E lb. .34¾- —
l.c.l. dlvd. E lb. .35¾- —
tanks, dlvd., E lb. .33 - —
Di-isobutylene, dms., c.l., works lb. .09½- —
l.c.l., works lb. .10 - —
tanks, works lb. .07½- —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .38¾- —
l.c.l., same basis lb. .39¾- —
tanks, same basis lb. .37 - —
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies lb. .49¾- —
l.c.l., same basis lb. .50¾- —
tanks, same basis lb. .48 - —
Dillseed, dewhiskered, bgs lb. .13½- —
natural, bgs lb. .11 - .11¼
Dimethyl anthranilate, cns lb. 5.50 - 5.90
Chloroacetal, dms., c.l., works lb. .53 - —
l.c.l., works lb. .55 - —
tanks, works lb. .51 - —
Hydroquinone, dms. lb. 2.25 - 2.75
Phthalate, dms., c.l., dlvd lb. .29¼- —
l.c.l., dlvd lb. .30¼- —
tanks, dlvd lb. .27½- —
Sebacate, dms., c.l., works lb. 1.31¼- —
l.c.l., works lb. 1.32¾- —
tanks, works lb. 1.30 - —
Sulphate, 55-gal. ret. dms., c.l., works lb. 1¾ - —
l.c.l. works lb. .16 - —
10-gal. ret dms., works lb. .16½- —
Dimethylamine 25-40%, dms., c.l., works, basis 100% lb. .37 - .38
l.c.l., works, basis 100% lb. .37½ - .38¼
tanks, works, basis 100% lb. .33 - —
Dimethylanilin, dms., c.l., frt. alld. lb. .26 - —
l.c.l., frt. alld lb. .27 - —
tanks, frt. allo lb. .25 - —
Dimethylethanolamine, anhydrous, dms., c.l., dlvd lb. 1.43 - —
l.c.l., dlvd lb. 1.45 - —
tanks, dlvd lb. 1.40 - —
70%, dms., c.l., dlvd., basis 100% lb. .54 - —
l.c.l., dlvd. lb. .55 - —
tanks, dlvd. lb. .52¼- —
Dimethylformamide, dms., works lb. .37 - —
tanks, works lb. .34 - —
Dinitroanilin, dms., frt. equald lb. .57 - —
Dinitrobenzene, crude, dms lb. .20 - —
purified, dms. lb. .22 - —
Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld. E lb. .15¾- —
tanks, frt. alld. E lb. .15 - —
Dinitrophenol, bbls lb. .34 - —
Dinitrotoluene oily, dms. lb. .10 - —
refined, dms. lb. .21 - —
Dioctyl adipate, dms., c.l., works lb. .44¾- —
l.c.l. works lb. .45¾- —
tanks, works lb. .43 - —
Phthalate, dms., c.l., frt. alld lb. .38¾- .41¾
l.c.l. frt. alld lb. .39¾- .42¾
tanks, frt. alld lb. .37 - .40
Diorthotolylguanidin, dms., ton lots, dlvd lb. .54 - —
smaller lots, dlvd lb. .55 - —
Dioxane, dms., c.l., works lb. .28¾- —
l.c.l., same basis lb. .29¼- —
tanks, same basis lb. .27 - —
Dip oil (see Far acid oil).
Dipentaerythritol, bgs., c.l., works, lb. .34 - —
l.c.l., works lb. .37 - —
Dipentene, dest-dist., dms., extra, c.l., works gal. .49 - —
l.c.l., works gal. .50 - —
whse. gal. .68 - —
steam-dist., dms., c.l., works, South gal. .60 - —
l.c.l., works, South gal. .69 - —
dlvd. N. Y. lb. .83 - —
Diphenyl, bbls. c.l., works lb. .15 - —
l.c.l., works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 - .65
Phthalate, dms., c.l., works lb. .51¾- —
l.c.l., same basis lb. .53¾- —
Diphenylamine, refined, gran., bbls., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .25 - —
tech, tanks, works lb. .24 - —
Diphenylguanidin, dms., ton lots lb. .44½- —
smaller lots lb. .45½- —
Diphenylhydantoin-sodium, USP, dms. lb. 5.30 - 5.60
Dipropyleneglycol, dms., c.l., frt. alld lb. .16¾- .17
l.c.l., same basis lb. .17¾- .18
tanks, same basis lb. .15 - —
Methylether, dms., c.l., dlvd. E lb. .20¾- —
l.c.l., same basis lb. .21¾- —
tanks, same basis lb. .19¼- —
Di-secondary-amylphenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tertiary-amylphenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tertiary-butylmetacresol, dms., c.l., works lb. .31 - —
l.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Di-tertiary butylparacresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .95 - —
Divi-divi, 45% tannin bgs., bls., c.l., U.S. ports, exdock ton. 70.00 - 72.00
Divinylbenzene, 20-25%, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .19 - —
40-50%, basis 100%, dms., c.l., works lb. 1.00 - —
l.c.l., works lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½- —
l.c.l., same basis lb. .15½- —
tanks, same basis lb. .12½- —
Dograss root, dom., cut, bls lb. .26 - .32
imp., cut, bls lb. .28 - .35
Dogwood bark, Jamaica, bls lb. .11 - .13
Dragon's blood, mass, cs lb. 1.25 - 1.30
reeds, cs. lb. 1.40 - 1.45
Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb. and 1-lb. lots dlvd—
Blue, FD&C, No. 1, cns lb. 17.00 - 17.60
No. 2, cns lb. 17.00 - 17.60
Green FD&C, No. 1, cns lb. 17.00 - 17.60
No. 2, cns lb. 22.20 - 22.85
No. 3, cns lb. 35.25 - 35.90
Orange, FD&C, No. 1, cns lb. 3.65 - 3.75
No. 2, cns lb. 4.65 - 4.75
Red, FD&C, No. 2, cns lb. 7.55 - 7.85
No. 2, cns lb. 4.00 - 4.10
No. 3, cns lb. 22.20 - 22.85
No. 4, cns lb. 7.20 - 7.50
No. 32, cns lb. 5.30 - 5.40
Violet, FD&C, No. 1, cns lb. 17.00 - 17.60
Yellow FD&C, No. 1, cns lb. 10.50 - 11.05
No. 3, cns lb. 3.30 - 3.40
No. 4, cns lb. 3.30 - 3.40
No. 5, cns lb. 4.00 - 4.10
No. 6, cns lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd.:—
Black, D&C, No. 1, cns lb. 10.95 - —
Blue, D&C, No. 9, cns lb. 16.10 - —
Brown, D&C, No. 1, cns lb. 16.10 - —
Green, D&C, No. 5, cns lb. 16.10 - —
No. 6, cns lb. 16.10 - —
No. 7, cns lb. 14.80 - —
Orange, D&C, No. 3, cns lb. 10.95 - —
No. 4, cns lb. 20.05 - —
No. 5, cns lb. 5.70 - —
No. 10, cns lb. 20.70 - —
Red, D&C, No. 8, cns lb. 2.85 - —
No. 9, cns lb. 2.85 - —
No. 10, cns lb. 2.30 - —
No. 11, cns lb. 1.85 - —
No. 12, cns lb. 2.65 - —
No. 17, cns lb. 10.95 - —
No. 18, cns lb. 24.00 - —
No. 19, cns lb. 15.45 - —
No. 21, cns lb. 3.60 - —
No. 22, cns lb. 10.95 - —
No. 28, cns lb. 24.65 - —
No. 33, cns lb. 17.45 - —
Violet, D&C, No. 2, cns lb. 16.10 - —
Yellow, D&C, No. 7, cns lb. 10.95 - —
No. 10, cns lb. 13.50 - —
No. 11, cns lb. 13.50 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb lots, works, 25-50 lb. lots dlvd:—
Blue, Ext., D&C, No. 1, cns lb. 16.10 - —
Green, Ext., D&C, No. 1, cns lb. 16.10 - —
Red, Ext., D&C, No. 1, cns lb. 13.50 - —
Yellow, Ext., D&C, No. 1, cns lb. 10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd.
20 Chrysoidine Y lb. .64 - —
27 Fast light orange 2G lb. 78 - —
31 Phloxine 2G lb. .64 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd.
36 Alizarine yellow 2G lb. 83 - —
40 Orange II extra, conc lb. 1.06 - —
57 Fuchsine 6B lb. .98 - —
79 Scarlet 2R lb. 74 - —
151 Orange Y lb. .46 - —
161 Orange RR lb. 55 - —
176 Fast red A, conc lb. 90 - —
179 Azo rubine XX, conc lb. 1.04 - —
180 Blue F4B lb. 92 - —
185 Brilliant scarlet 3RN, conc lb. 93 - —
202 Chrome blue black, conc lb. 68 - —
203 Chrome black T lb. 71 - —
208 Fast blue SR lb. 91 - —
216 Chrome red B lb. .84 - —
234 Resorcin brown lb. 89 - —
246 Blue black extra, conc lb. 86 - —
275 Milling red 3R conc lb. 2.03 - —
289 Navy blue 3R, conc., 125% lb. 1.08 - —
299 Black F, conc lb. 1.40 - —
304 Neutral black 2B, conc., 200% lb. 2.01 - —
328 Fast scarlet 4BNC lb. 1.64 - —
332 Bismarck brown RX, conc lb. 86 - —
365 Brilliant yellow, conc lb. 2.34 - —
382 Scarlet B lb. 1.65 - —
401 Diazo black, BHD lb. .63 - —
406 Blue 2B extra conc lb. 1.07 - —
419 Diamine fast red FC lb. 1.12 - —
420 Diamine brown M lb. 90 - —
448 Benzo purpurine 4B, conc lb. 1.18 - —
518 Diamine sky blue FF, extra, conc lb. 1.50 - —
561 Trisulphon brown BCW conc lb. 2.03 - —
581 Direct black E, double lb. .89 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd.
593 Diamine green BXN, conc, 150% lb. .97 - —
598 Congo brown GG, conc, 150% lb. 1.46 - —
620 Stilbene yellow G, conc lb. .92 - —
639 Xylene light yellow GX lb. 1.79 - —
640 Tartrazine conc lb. 1.46 - —
655 Auramine conc lb. 1.85 - —
657 Victoria Green sml. cryst. lb. 1.70 - —
662 Brilliant green cryst lb. 2.79 - —
667 Brilliant milling green B, conc lb. 2.58 - —
671 Brilliant Blue E lb. 1.73 - —
698 Formyl violet S4B lb. 1.58 - —
681 Crystal violet powder lb. 2.15 - —
698 Formyl violet S4B lb. 1.50 - —
720 Chrome azure blue BR, conc, 200% lb. 3.75 - —
729 Victoria blue B conc lb. 2.79 - —
739 Green SN, extra lb. 2.41 - —
749 Rhodamine B, extra lb. 4.33 - —
814 Fast yellow NNL, conc 175% lb. 3.11 - —
841 Safranine T, extra, conc, 125% lb. 2.90 - —
865 Nigrosine WSJ lb. .68 - —
922 Methylene blue ZX lb. 1.55 - —
969 Sulphanthrene blue GR paste, lb. 76 - —
978 Sulphogene carbon HCF grains lb. 32 - —
1034 Alizarin red S conc lb. 2.59 - —
1054 Anthraquinone blue B lb. 2.91 - —
1096 Indanthrene golden orange G, single paste lb. 2.00 - —
double paste lb. 4.00 - —

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Dyes, Coaltar, General Use, No. 1099—Ferric Hypophosphite

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd.			
1099 Indanthrene dark blue BO, single paste	lb.	1.78	—
1101 Brilliant green B, double paste	lb.	2.38	—
1106 Indanthrene blue RS, double paste	lb.	3.07	—
1113 Indanthrene blue GCD, double paste	lb.	1.75	—
1130 Indanthrene olive R, single paste	lb.	1.10	—
1151 Indanthrene brown R, single paste	lb.	1.68	—
double paste	lb.	3.35	—
1213 Sulphanthrene red violet 2RN, single paste	lb.	1.62	—
1217 Sulphanthrene orange R, single paste	lb.	1.68	—
p-4 Acid anthracene brown PGN	lb.	2.30	—
p-14 Anthracene chromate brown EBN	lb	1.31	—
p-24 Benzo fast black L	lb.	1.45	—
p-90 Diazo brilliant scarlet ROA	lb	2.79	—
p-202 Diazo black VJ, conc	lb.	1.56	—
p-313 Naphthol AS-SW	lb.	2.42	—
p-344 Celliton scarlet B	lb.	1.31	—
1078 Anthraquinone green G	lb	2.72	—
1085 Alizarin blue black B	lb	2.33	—
Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.			
Black blue No. 550	lb.	81	—
Jet, No. 551	lb.	.89	—
Brown R, conc.	lb.	1.72	—
Orange R, brilliant	lb.	.90	—
Red 4 B, conc.	lb.	1.37	—
Yellow C	lb	1.18	—
FN, conc.	lb.	1.22	—

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms, sellers' works:—			
Auramine, O	lb.	1.85	—
Black, basic, blue	lb.	1.21	—
Jet	lb.	1.21	—
Blue, methylene, 2 B, conc.	lb.	1.55	—
Brown, Bismarck, R, conc	lb.	.86	—
Chrysodine, R, extra	lb.	.60	—
Y, extra	lb.	.64	—
Fuchsine, conc	lb.	3.08	—
Green, malachite, conc	lb.	2.10	—
Rhodamine B	lb.	4.33	—
Safranine, Y, conc	lb.	2.90	—
Violet, methyl, B	lb.	1.10	—
Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:			
Azo rubine R, extra, conc	lb.	1.04	—
Black, acid blue, B, extra	lb.	.86	—
Orange Acid, Y, conc	lb.	.47	—
Scarlet, croceine, MOO	lb	1.45	—
Yellow azo, conc	lb	.90	—
Fast light, 3 G, extra	lb	2.04	—
Methanil, conc	lb.	.91	—

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls	lb.	.90	Nom.
Egg albumen (see Albumen).			
Yolk, dried, dom., bbls	lb.	.95	- .97
Chinese, spot, bbls., duty paid	lb.	No stocks.	
tanners bbls	lb.	.06	06¼
Elder flowers, bright, bls	lb.	.30	.40
Elecampane root, bls	lb.	.23	- .25
Elm bark, grinding, bls	lb.	.28	- .29
powd., bbls., bxs	lb.	.46	- .47
select, bundles	lb.	.60	- .61
Emetine hydrochloride, USP, bots.,	oz.	35.00	-42.85
Ephedrine, synthetic, USP, anhydrous bots., 100-oz. lots	oz.	.98	- 1.60
hydrous, bots., 100-oz. lots	oz.	.92	- —
Hydrochloride, tin, 100-oz. lots	oz.	.75	- —
Sulphate cryst., tins, 100-oz. lots	oz.	.72	- —
powd., tins, 100-oz. lots	oz.	.73	- —
Epichlorohydrin, dms., c.l., works	lb.	.38¾	—
l.c.l., works	lb.	.39½	—
tanks, works	lb.	.37	—
Epinephrine, synth., USP, bots., 100 grams	gram.	.48	- .55
Epsom salt, tech., bgs., c.l., works,	100 lbs.	2.15	—
l.c.l., works	100 lbs.	2.90	- 3.15
USP, cryst., bgs., c.l., works,	100 lbs.	2.35	—
l.c.l., 5,000 lbs., 1 withdrawal	100 lbs.	3.10	—
smaller lots	100 lbs.	3.35	—
Ergosterol, unirradiated, cryst	kilo	150.00	—
Ergot, NF, dms., tin-lined	lb.	2.50	- 3.10
Eserine, bots	oz.	45.00	-50.00
Salicylate USP, bots	oz.	32.50	-34.00
Sulphate, bots	oz.	34.50	-35.50
Ether acetate (see Ethyl acetate).			
Butyl, dms., c.l., works	lb.	.31½	—
l.c.l., works	lb.	.32	—
tanks, works	lb.	.30	—
Butyric (see Ethyl butyrate).			
Dichloroethyl, rerd., dms., c.l., frt. alld. E	lb.	.14	.14¼
l.c.l., same basis	lb.	.15	- .16
tanks, same basis	lb	.13	—
technical, dms., c.l., works	lb.	.13	—
l.c.l., works	lb.	.13½	—
tanks, works	lb.	.12	—
Ether, ethyl, absolute, ACS, dms.	lb.	.37	- —
anesthesia, USP, hospitals, 1-lb. cns.	lb.	.89	- —
½-lb cns	lb.	.97	- —
¼-lb cns	lb.	1.05	- —
solvent, USP, dms., c.l., dlvd.	lb.	.15¾	—
l.c.l., same basis	lb.	.16¾	—
tanks, same basis	lb.	.13¾	—
synthetic, dms., c.l., dlvd. E	lb.	.1575	—
l.c.l., same basis	lb.	.1675	—
tanks, same basis	lb.	.1375	—
Isopropyl, dms., c.l., dlvd	lb.	.0675	.0856
l.c.l., dlvd.	lb.	.0750	.0936
tanks, dlvd	lb.	.05	.07½
Nitrous, conc., bots., 100-lb. lots	lb.	1.23	- 1.35
Vinyl, USP, anesthesia, bots., 50 cc. hospitals	bot.	1.12	- —
75 cc. hospitals	bot.	1.56	- —
Ethyl acetate, natural, fermentation 85-88%, dms., c.l., frt. alld.	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11	—
95-98%, dms., c.l., frt. alld.	lb.	.13	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11¼	—
99%, dms., c.l., frt. alld	lb.	.13¼	—
l.c.l., frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11½	—
NF, dms., frt. alld	lb.	.24	- .25
synthetic, 85-90%, dms., c.l., frt. alld	lb.	.12¾	—
l.c.l., frt. alld	lb.	.13½	—
tanks, frt. alld	lb.	.11	—
95-98%, dms., c.l., frt. alld.	lb.	.13	—
l.c.l., frt. alld	lb.	.13¾	—
tanks, frt. alld	lb.	.11¼	—
99%, dms., c.l., frt. alld	lb.	.13¼	—
l.c.l., frt. alld	lb.	.14	—
tanks, frt. alld	lb.	.11½	—
Acetoacetate, dms., c.l., dlvd	lb.	.55	- —
l.c.l., dlvd.	lb.	.56½	- —
Acrylate, dms., c.l., and truckload, works	lb.	.49	- —
less than truckload, works	lb.	.49½	- —
tanks, works	lb.	.48	- —
Aminobenzate, USP (see Benzocaine)			
Benzoate, cns, dms	lb.	.74	- .79
Bromide, tech., 98%, dms	lb.	.43	- .47
Butyrate, works	lb.	.80	- 1.02
Carbamate (see Urethane).			
Chloride, tech, dms, c.l., works,	lb.	.18	- .30
cyls, c.l., same basis	lb.	.20	.22
tanks, same basis	lb.	.10	—
USP, bbls, cyls	lb	22	.24
Cinnamate, cns	lb.	2.28	- 2.53
Formate, dms	lb.	.60	- —
Gallate, dms., 100 to 2,000-lb. lots	lb	3.90	4.40
Iodide, bots., works	lb	4.13	—
Lactate, dms., works	lb.	.47½	- —
Methacrylate, dms., c.l., and truckload works	lb.	.50	—
less than truckload works	lb.	.50½	- —
Nitrite (see Ether, nitrous).			
Oenanthate, dms	lb.	1.00	- 1.50
Oleate, dms., l.c.l., works	lb.	No prices.	
Oxalate (see Diethyl oxalate).			
Silicate, dist, (see Tetraethylorthosilicate).			
40% available SiO, dms, works,	lb.	.60½	- —
Ethylalphanaphthylamine (see Monoethylalphanaphthylamine).			
Ethylamine (see Mono-, Di- or Tri-)			
Ethylanilin (see Monoethylanilin)			
Ethylbenzene, 99%, dms., c.l.	lb.	.14	- .20¼
l.c.l.	lb.	.15	- .21¼
tanks	lb.	.13	- .18½
Ethylbutyl ketone, dms., c.l., works,	lb.	.33½	—
l.c.l., works	lb.	.34	—
tanks	lb.	.32	—
Ethylcellulose, viz. 7 cps., bgs., 5,000 lb. lots or more, works	lb.	.70	—
smaller lots, works	lb.	.72	.80
viz. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works	lb.	.65	—
smaller lots	lb.	.67	.75
Ethylene dichloride, dms., c.l., dlvd. E	lb.	11¾	—
l.c.l., same basis	lb.	.12¾	—
tanks, same basis	lb.	.10	—
Ethylene dichloride prices W. of Rockies, 1c per lb higher.			
Oxide, cyls., c.l., works	lb.	.26	- —
l.c.l., works	lb.	.27	- —
tanks, dlvd E	lb.	.19	- —
Trichloroethane (see Trichloroethane).			
Ethylenediamine, 76%, basis 100%, dms., c.l., dlvd	lb.	.49	- —
l.c.l., dlvd.	lb.	.50	- —
tanks, dlvd	lb.	.47	- —
Ethyleneglycol, dms., c.l., frt. alld. E	lb.	18¾	—
l.c.l., same basis	lb.	19¾	—
tanks, same basis	lb.	.17	- —
Monobutylether, dms., c.l., dlvd.	lb.	.22½	- —
l.c.l., dlvd.	lb.	.23½	- —
tanks, dlvd.	lb.	.21	- —
Monoethylether, dms., c.l., dlvd.	lb.	.20	- —
l.c.l., dlvd.	lb.	.21	- —
tanks, dlvd.	lb.	.18½	—
Monoethylether, acetate, dms., c.l., dlvd	lb.	.18¼	—
l.c.l., dlvd.	lb.	.19¼	—
tanks, dlvd.	lb.	.16½	—
Monomethylether, dms., c.l., works,	lb.	.22	- —
l.c.l., works	lb.	22¼	—
tanks, works	lb.	.21	—
Monomethylether acetate, dms., c.l., works	lb.	.23¾	—
l.c.l., works	lb.	.29¼	—
tanks, works	lb.	.27	—
Monostearate, dms	lb.	.30	- .37
Ethylethanolamines, mixed, dms., c.l., frt alld., E Miss	lb.	42	—
l.c.l., same basis	lb.	43	—
tanks, same basis	lb	40	—
Ethylmorphine hydrochloride, USP, bots	oz.	11.85	—
Ethylorthotoluidine (see Monoethylorthotoluidine).			
Ethylvanillin, cns., 25-lb. lots	lb	6.75	7.30
smaller lots	lb	7.35	7.40
Eucalyptol, USP, cns., dms	lb.	1.45	- 1.70
Eucalyptus leaves, bls	lb	.10	.11
Eugenol, pure, USP, bots	lb.	2.90	3.45
Euphorbia herb, bls	lb.	.12	.14

F

Feldspar, enamel, 100 mesh, bgs., works	ton	20.00	22.00
Glass, 20 mesh, bulk, tons, works	ton	11.75	12.50
Pottery, bgs., ton lots, works	ton	20.00	22.00
bulk, c.l., works	ton	18.00	20.00
Fennel seed, Czech, dark, bgs	lb.	.19½	.20
French, bgs	lb.	.28	Nom.
Syrian, light, bgs	lb.	.29	Nom.
Fenugreek seed, Moroccan, bgs	lb.	.06	—
Ferric-ammonium citrate (see Iron ammonium citrate)			
Ferric cacodylate (see Iron cacodylate)			
Ferric glycerophosphate (see Iron glycerophosphate).			
Ferric hypophosphite (see Iron hypophosphite).			

between the pitch and the pan...

CHEMISTRY

It takes more than a song to sell soap...between the studio and our housewife's kitchen lie years of market analysis and chemical research; for developing soaps and synthetic detergents that make her job easier is essentially a chemical process.

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1170

MATHIESON CHEMICAL CORPORATION • BALTIMORE 3, MARYLAND

Ferric sulphate (see Iron sulphate-ferric).
Ferrous gluconate, NF, dms.... lb. .68 .97
Fir balsam, Canada, cns.....gal.34.00 -35.00
Oregon, bbls.....gal. 2.85 Nom.
Fisherries, bgs.....lb. 17 21
Fishliver oil (see Oil, fishliver).
Fishmeal ground, domestic, 60% protein, bulk, Balto area ton.135 60 - —
Fishscrap, dried 60% protein, bulk, Balto area ton.129 60 - —
Fluorspar, dom., acid grade, bulk, c.l., mine ton.60.00 - —
ceramic grade, 93-96% CaF_2, grd., bulk, mine, c.l ton.57.50 - —
85-92% CaF_2, grd., bulk, mine, ton.47.00 - —
metallurgical grade, briquetts, pellets, 65% CaF_2, bulk, works ton.34.00 - —
lump, 59-65% effective CaF_2, bulk, mine, c.l ton.40.00 - —
washed gravel, 59-60% effective CaF_2, bulk, mine, c.l ton.40.00 - —
60-65% effective CaF_2, bulk, mine ton.40.00 - —
65-70% effective CaF_2, bulk, mine, c.l ton.42.00 - —
70% or better, effective CaF_2, bulk, mine, c.l ton.43.00 - —
imported, bulk, ex dock, New York ton.37.00 Nom.
Formaldehyde NF (inhibited), dms., c.l., E., works lb. .0825 - —
t.c.l., E. works lb. .0-75- —
tanks, E. works lb. .0420- —
methanol-free (uninhibited), tanks, works lb. .0395 —

Tankcar and tankwagon prices above are on a delivered basis in New England Eastern New York, N. J. Eastern Penna. and part of Delaware, in states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls.....lb. .60 .61
Fuller's earth dom. powd., bgs., c.l., Fla., Ga., mines ton.38.50 —
Illinois mines ton.37.20 —
spent, bulk, Bayonne ton 2.00 4.00
imported, bgs, c.l ton.30.00 -40.00
Furfural, tech., dms., c.l., works lb. .13 —
t.c.l., works lb. .15 —
tanks, works lb. .108 —
Fusel oil, refined, dms., c.l., dlvd lb. .16¾- .17¼
t.c.l., dlvd.....lb. .17½- .18
tanks, dlvd.....lb. .15 - .15½
Fustic extract, cryst., No. 1, bbls., t.c.l lb. .47½ —
No. 2, bbls., t.c.l ..... lb. .45½ —
No. 3, bbls., t.c.l..... lb. .43½ —
liquid, No. 1, bbls., t.c.l.... lb. .22½ —
No. 2, bbls, t.c.l.....lb. .21½ —
No. 3, bbls., t.c.l.....lb. .19 —
solid, No. 1, bxs., t.c.l.....lb. .45 —

G

G salt, bulk, t.f. alld .....lb. .73 —
Galanga root, bls .....lb. .18 .25
Gammapicoline, 95%, dms., c.l., works lb. 1.00 1.05
Gasoline, at refinery, ex tax, Arkansas 80 octane tanks gal. .1075 —
N. Y. Harbor 86 octane tanks gal. .1285 .136
Group 3, 82 octane, tanks gal. .10375- .1062
Gulf coast, 82 octane, tanks gal. .1125- .1150
Penn., western U. S. motor, 66 octane, tanks gal. .1275- .129
natural, group 3, 26-70 octane, tanks gal. .06875 —
Gelatin, edible pure, (pork skin), 75 Bloom test, c.l....lb. .57 - —
150 Bloom test, c.l. .....lb. .65 - .66
200 Bloom test, c.l.....lb. .71 - .72
225 Bloom test, c.l. .....lb. .74 - .75
275 Bloom test, c.l.....lb. .82 - .85
silver label, imp., cs.....lb. 1.25 - —
Geisemium root, ols .....lb. .26 - .27
Gentian root, bls .....lb. .17 - .18
grd., bbls., bxs .....lb. .22 - .23
powd., bbls. bxs .....lb. .23 - .24
Geraniol, extra, cns., dms.....lb. 1.55 - 1.65
standard, cns., dms .....lb. .75 - 1.50
Geranyl acetate cns .....lb. 1.55 - 1.60
Ginger, oleoresin NF, from African roots, lots lb. 4.00 - 7.75
from Jamaican root, bls...lb. 5.00 -12.75
Root, African, bls.....lb. .14 - .14½
Cochin, unbleached, bgs.....lb. .18½- —
Jamaica, f.o. 1, bgs.....lb. .24 - —
No. 2, bgs.....lb. .17½- .18
No. 3, bgs.....lb. .15½- —
Rhattoon, bgs. .....lb. .15 - —
Nigerian, split, bgs.....lb. .11½- .12
Ginseng root, cs.....lb.16.50 -17.00
Glauber's salt, annyd (see Sodium sulphate).
cryst., bgs. c.l., works, frt. alld. ton.45.00 - —
t.c.l., works..... ton.50.00 - —
Glue, bone, extracted, 65 jellygrams, bgs., c.l., dlvd lb. .24½- —
80 jellygrams, same basis lb. .25 - —
104 jellygrams, same basis lb. .25½- —
131 jellygrams, same basis lb. .26 - —
164 jellygrams, same basis lb. .26½- —
191 jellygrams, same basis lb. .27 - —
222 jellygrams, same basis lb. .28 - —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .21½- —
65 jellygrams, same basis lb. .22½- —
86 jellygrams, same basis lb. .23 - —
115 jellygrams, same basis lb. .24 - —
135 jellygrams, same basis lb. .25 - —
164 jellygrams, same basis lb. .26 - —
185 jellygrams, same basis lb. .27 - —
renderers' 110 jellygrams, bgs., c.l., dlvd lb. .22 - —
150 jellygrams, same basis lb. .23 - —
190 jellygrams, same basis lb. .24 - —
Bone glue, t.c.l. prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd..lb. .26 - —
95-121, bgs., c.l., dlvd.....lb. .27½- .28
122-149, bgs., c.l., dlvd.....lb. .29 - .29½
150-177, bgs., c.l., dlvd.....lb. .30 - .31
178-206, bgs., c.l., dlvd.....lb. .31 - .32
207-236, bgs., c.l., dlvd.....lb. .32 - .33
237-266, bgs., c.l., dlvd.....lb. .33 - .34
267-296, bgs., c.l., dlvd.....lb. .34 - .35
298-330, bgs., c.l., dlvd.....lb. .35 - .36
331-362, bgs., c.l. dlvd.....lb. .36 - .37
363-394, bgs., c.l., dlvd.....lb. .37 - .38
395-427, bgs., c.l., dlvd.....lb. .38 - .39
428-460, bgs., c.l., dlvd.....lb. .40 - .41
461-494, bgs., c.l., dlvd.....lb. .41 - .43
495-529, bgs., c.l., dlvd.....lb. .42 - .45
Hide glue t.c.l. prices 1c. higher than c.l.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd lb. .30 Nom.
soaplye, 80%, tanks, dlvd..lb. .27 Nom.
dynamite, dms., c.l., dlvd.....lb. .43¾- —
t.c.l., dlvd.....lb. .44¼- —
tanks, dlvd.....lb. .43¼- —
high gravity, dms., c.l., dlvd..lb. .44 - —
t.c.l., dlvd.....lb. .44½- —
tanks, dlvd.....lb. .43½- —
Glycerin, refined BP, 96%, dms., c.l., dlvd..lb. .45⅞- —
t.c.l., dlvd.....lb. .46⅜- —
tanks, dlvd.....lb. .45⅜- —
USP, CP, 95%, dms., c.l., dlvd. lb. .44½- —
t.c.l., dlvd.....lb. .45 - —
tanks, dlvd.....lb. .44 - —
yellow, distilled, dms., c.l., dlvd. lb. .43⅞- —
t.c.l., dlvd.....lb. .44⅜- —
tanks, dlvd. .....lb. .43⅜- —
Glycine USP (see Acid aminoacetic)
Glyoxal, 30% dms. c.l works lb. .18½- —
t.c.l. works lb .19 —
tanks works lb .18 —
Gold chloride, acid-brown, bots. oz.22.50 -23.00
acid-yellow, bots .....oz.20.00 -20.50
Golden seal root, NF, tested, bls. lb 3.00 3.05
powd. bxs .....lb. 3.25 3.30
Grains of paradise, bgs.....lb. .34 Nom.
Graphite amorph powd bgs. fib. dms., ex whse lb. .05 - .09½
crystalline, 90-95% powd bgs., fib. dms., ex whse lb. .19 - .21½
90-92% powd. bgs. fib dms., ex whse lb. .21 - .24½
95-97% powd bgs. fib dms., ex whse lb. .29 .31½
flake, No. 1, 90-95%, bgs. fib. dms. ex whse lb. .29 .31
No. 2 90-95% bgs., fib dms., ex whse lb. .29 .31
Grease, brown, dlvd .....lb. .03¾- —
house .....lb. .04¼- —
white, choice .....lb. .03¾- —
yellow .....lb. .04¾- —
Green, brilliant, thioflavin, toner, molybdated PMA, kgs., works lb. 4.50 - —
tungstated, PTMA, kgs., works lb. 6.30 - —
Green, chrome, CP, dark, light, medium, blue content 5 to 30%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .37 - —
31-50%, bbls., same basis. lb. .37 - .38
50-60%, bbls., same oasis. lb. .40 - —
reduced color, 25%, bbls., same basis lb. .17 - .17¼

Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth 1¼c; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., dms., c.l., frt. alld lb. .95 - 1.20
pure c.t., bgs. frt. alld lb. .37½- .44
Dyes (see Dyes, coaltar).
Emerald malachite toner tungstic, PTMA bbls., works lb 4.50 5.50
Paris (see Paris green).
Phthalocyanin toner, bbls., works. lb 4.40 - —
resinated, bbls .....lb 4.60 - —
water dispersable, bbls.....lb 1.71 - —
Pigment B, kegs .....lb 1.35 —
Grindelia robusta herb, bls.....lb. .38 - .40
Guaiac resin, NF, cs .....lb. .55 60
ordinary, cs .....lb .49 - .51
Guaiacol, cryst., tins .....lb. 1.90 - —
liquid, NF, bots., cbys.....lb. 2.15 - 2.20
Carbonate, dms .....lb. 3.15 - 3.20
Guarana, powd., cs.....lb. 2.00 - —
Gum acreoides (see Gum yacca).
Aloe (see A.)
Ammoniac tears, cs .....lb. .35 - .65
Arabic, amber sorts, bgs.....lb. .14 - .15
powdered, USP, bbls.....lb. .19 - .21
Asafetida (see A).
Asphaltum (see A)
Benzoin, Sumatra, cs.....lb. .38 - .40
Camphor (see C).
Cellulose, bgs., 25,000 lbs. or more, works, frt. alld lb. .60 - —
smaller lots same basis lb .62 - —
Copal, Congo, No. 1, bgs.....lb. .21 - .23
No. 2 bgs .....lb. .19 - .20
No. 3, bgs .....lb. .17½ - 18½
Manila toha B, bgs.....lb. No prices.
C, bgs .....lb. .27 .32
CBB bgs .....lb. .22 .23
CNE bgs. .....lb. No prices.
DBE bgs. .....lb. .14 .18
DK bgs. .....lb. .12 .15
dust, bgs. .....lb. .11 - .12½
soft, MA bgs .....lb .12 .16
WS bgs .....lb .27 .35
Philippine, pale, chips, bgs....lb. .18 - .25
nubs bgs .....lb .27 .32
seeds bgs .....lb .15 .21
sorts bgs .....lb .18 .22
Pontianak, chips, bgs .....lb .22 .26
nubs bgs .....lb .36 .40
Dammar Batavia, A E bgs..lb .24 .26
dust, bgs .....lb .14 .16
E., bgs .....lb .16 .18
East India, batu bold, bgs lb .12 .14
nubs and chips, bgs lb .08 - .10

How Monsanto INTERMEDIATES Serve the PHARMACEUTICAL Industry

As an experienced buyer of chemicals, you undoubtedly are as familiar as we are with the purity and quality of more than 40 intermediates produced by Monsanto. We'd just like to remind you once again, they are available for prompt shipment, to meet *your* needs.

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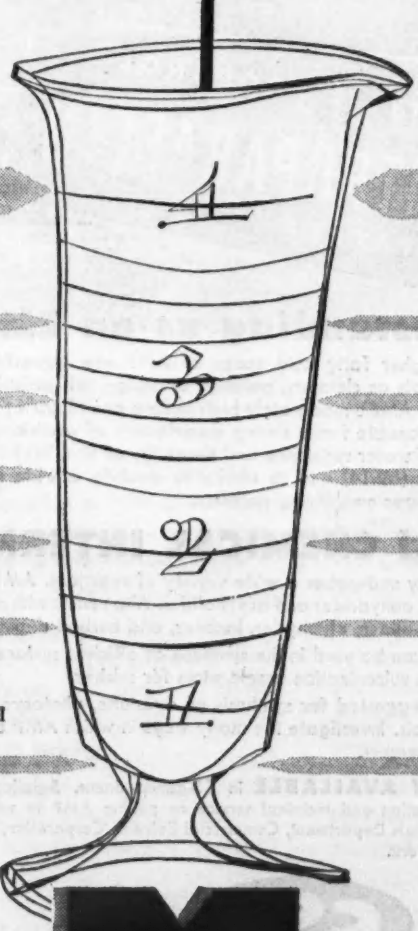

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Benzyl Chloride	Phenobarbital, U. S. P. Penicillin precursors Quaternary ammonium germicides
Phenyl Acetonitrile	Phenobarbital, U. S. P. Penicillin precursors
Benzoic Acid	Benzyl Benzoate, U. S. P. (a scabicide)
Paranisidine	Atabrine
beta-Dimethylaminoethyl Chloride	Antihistamines
Phosphorus oxychloride Orthonitrochlorobenzene Thiourea para-Acetylaminobenzenesulfonyl Chloride	Sulfa drugs

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Gum, Dammar, East India, Black—Isopropyl Ether

Gum, dammar, East India, black, bold, bgs lb. .14½- .16
unscraped bgs lb. .12 .13
nubs and chips, bgs lb. .11 .13
pale, chips, bgs lb. .13 .14
nubs, bgs. lb. .19 .20
Singapore, No 1, bgs lb. .35 .38
No. 2, bgs lb. .29 .32
No. 3, bgs. lb. .16 .17
dust, bgs lb. .14 .16
seeds, bgs lb. .16 .18
Ester, gum-rosin type, dms., c.l., dlvd., ill., ind., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va. W Va lb. .14 - .14½
wood-rosin type, dms., c.l., dlvd., ill., ind., etc lb. .14 - —
Euphorbium, cs. lb. .55 - .60
Galbanum, cs lb. .75 - .80
Gamboge, pipe, cs lb. .90 - 1.00
powd., bbls lb. .90 - 1.20
Ghatti, No. 2, bgs lb. .35 - .37
No. 3, bgs lb. .31 - .33
Guaiac (see Guaiac resin).
Karaya, NF, powd., No. 1, bbls lb. .30 - .35
No 2, bbls lb. .22 - .25
No 3, bbls lb. .19 - .22
Kauri, bgs. lb. .30 - .50
Kino, cs lb 1.15 - 2.40
Locust bean, powd., bgs lb. .30 - .32
Mastic, cs lb 2.00 - 2.10
Myrrh, cs lb. .30 - .35
Olibanum, siftings, cs lb. .16 - .18
tears, cs lb. .20 - .30
Opium (see O).
Red (see Gum yacca).
Rosin (see R).
Sandarac, cks. lb 3.50 - 4.00
Scammony, cs. lb. 1.50 - 1.55

Gum, sterculia (see Gum karaya).
Talha, bgs lb. .10 - .11
Tragacanth, No. 1, cs lb. 2.85 - 2.90
No. 2, cs lb. 2.45 - 2.50
No 3, cs lb. 1.60 - 1.70
powdered, USP, bbls lb. 1.25 - 1.35
Yacca, bgs lb. .06 - —
Gypsum, anhydrous filler paper bgs., c.l., Medicine Lodge Kan ton.19.00 - —
Plaster of paris, paper bgs., c.l., Baltimore, frt. equald ton.18.30 - —
Harlem river, N. Y., frt. equald ton.17.30 - —
Medicine Lodge, Kan., frt. equald ton.16.00 - —
Stucco, paper bgs., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt. equald ton. 8.00 - —
Fort Dodge Iowa, frt equald. ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton. 8.00 - —
Grand Rapids, Mich., frt. equald ton. 8.00 - —
New Brighton N. Y., frt. equald ton 8.00 - —
Plasterco, Ga., frt. equald. ton. 8.00 - —
Roton, Texas, frt. equald ton. 8.00 - —
Southard, Okla., frt. equald. ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Terra alba, dom., paper bgs., c.l., Baltimore ton.14.40 - —
Harlem River, N. Y ton.14.40 - —
Imported, English, paper bgs., ex dock ton.48.00 - —
ex warehouse ton.53.00 - 56.00

H

Hawthorn berries, bgs lb. .30 - .32
Heliotropine, cryst., cns lb. 3.10 - 3.45
Helonias root, bls lb. 1.65 - 1.70
Hellebore root, dom., green, bls lb. .60 - .65
imp., black, whole, bls lb. .25 - .30
ground, bxs lb. .30 - .35
powder, bxs lb. .32 - .37
white, whole, bls lb. .25 - .30
powder, bxs lb. .35 - .45
Hematine extract, cryst, No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No 5, bbls., l.c.l. lb. .37 - —
paste, No. 1, bbls., l.c.l. lb. .20½- —
Henbane leaves, bls lb. .35 .40
Henna leaves, bls lb. .23 .25
powd., bbls., bgs lb. .22 .29
Heptane, industrial, Bayonne, N. J., tanks gal. .18 - —
group 3, tanks gal. .1375- .1405
Hesperidin methylchalcone, bots., works lb.50.00 - —
Hexachlorophene, dms lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech. bgs., 1,000-lb. lots or more, Perth Amboy or N Y C. lb. .232 - —
less than 1,000-lb. lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
less than 1,000-lb. lots, same basis. lb. .249 - —
USP, dms., 500 lbs. or more, same basis lb. .40½- —
smaller lots, same basis lb. .41½- —
Hexamine (see Hexamethylene tetramine).

Hexane, industrial, Bayonne, N. J., tanks gal. .18 - —
Group 3, tanks gal. .145 - .148
Hexanol, normal, dms., c.l., works, lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 2.25 7.50
Salicylate, dms lb. 1.75 —
Hexylenegiycol, dms., c.l., dlvd lb. .15¾- —
l.c.l., dlvd lb. .16½- —
tanks, dlvd lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works. lb. .71 - —
Hexylresorcinol, USP, dms., dlvd., 50-lb. lots or more lb 15.00 -16.00
smaller lots, dlvd lb.16 00 -17.00
Histamine diphosphate, USP., bots. kilo.456.00 —
Histidine hydrochloride, laevo, NF, fib dms., 50-kilo lots, works kilo.80.00 -85.00
1-5 kilo lots works kilo.90 00 -95 00
Homatropine hydrobromide, USP bots oz.13.75 -14.00
Hydrochloride, bots oz.20.00 -22.00
Methylbromide, USP, bots oz.13.00 -14.50
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago, unit-ton. 6.75 - —
Hops, NF, bls lb. .30 .35
Horehound herb, bls lb. .14 .15
Hydrangea root, bls lb. .22 .25
Hydrastine, bots oz.29.50 -31.00
Hydrochloride, NF, bots oz.29.50 -31.00
Sulphate bots oz.35.00 -37.00
Hydrastinine, 10-grain bots bot. 1.95 —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls lb. 4.50 5.25
Hydrate, 100% ret. dms., Niagara Falls lb. 3.00 3.50
85% same basis lb. 2.55 3.00
Hydroturamide, dms., fib. ctns., works lb. .30 .40
Hydrogen chloride anhyd., 50-lb. cyl., works lb. .55 .60
Peroxide, USP bbls. dlvd lb. .03¾ .05
35%, cbys., same basis lb. .217 .243
dms., c.l. same basis lb. .21 —
l.c.l., same basis lb. .215 .24
tanks lb. .203 —
Hydrogen peroxide prices on W Coast 2c per lb. higher.
Hydroquinone, photogrd., bbls., dms. lb. .98 1.00
tech., dms., c.l., frt. equald lb. .77 —
l.c.l., frt equald lb. .78 —
Hydroxycitronellal, cns lb. 5.35 5.80
Hyoscine salts (see Scopolamine)
Hyoscyamine, bots oz.15.75 -16.00
Hydrobromide, bots oz.16.50 -18.00
Sulphate bots oz.12.00 -13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 —
liquid, No. 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —
Hyssop herb, bgs lb. .35 - .36
Leaves, bgs lb. .50 - .51

I

Iceland moss, bgs lb. .30 .35
Ichthammol, NF dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo, nat., chests lb. 2.14 2.16
synth., paste, 20%, bbls lb. .28 .28½
Indol, CP bots lb 17.00 -21.00
Inositol dms. dlvd lb. 5.60 —
tins, dlvd. lb. 5.70 —
Insect flowers (see Pyrethrum).
Iodine, crude kgs lb. 1.84 2.04
resublimed, USP, bots., jars lb 2.55 2.78
Iodochlorohydroxyquin, USP, dms. lb. 6.90 —
Iodoform NF dms. kgs lb 4.70 4.85
Ionone alpha, cns lb. 3.75 - 8.15
Beta, cns lb. 4.30 -11.25
Methyl, dms., cns lb. 3.80 - 8.40
Ipecac root, pgs lb. 5.25 - 5.50
powd., bbls., bxs lb. 6.00 - 6.25
Irish moss, bleached, prime, bls lb. .25 .30
Iron acetate liquor, 23° bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾- —
solut., USP IX, cbys lb. .16 - —
dms lb. .17 - —
Cacodylate, NF, bots lb.13.00 -14.00
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 6.25 - —
l.c.l., works 100 lbs. 7.50 - —
cryst., indust., bbls., c.l., works 100 lbs. 5.25 6.25
l.c.l., works 100 lbs. 5.75 6.75
USP, dms., works lb. .07½- .09
solut., 42° Be, basis 100%, cbys., c.l., works 100 lbs. 7.25 - 8.25
l.c.l., works 100 lbs. 7.75 -10.75
tanks, works 100 lbs. 3.45 - —
Citrate, gran., dms lb. .77 - .80
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphate, NF, powd. lb. 4.45 - 4.55
Hypophosphite, NF, dms lb 2.80 - —
Iodide bgs lb 3.66 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .23¾- —
Oxalate, gran., dms lb. .85 - .97
Phosphate, soluble, NF, gran., pearls, cs lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran. pearls, dms lb. .78 - .81
Reduced, NF, kgs lb. .90 - .95
Resinate, 6.75% Fe, dms., frt. alld lb. .26¼- —
Stearate, dms., c.l lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate, ferric, partially hydrated, bgs., c.l., works ton.30.00 - —
l.c.l., works ton.31.00 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms lb. .09½- .10
Iron by hydrogen (see Iron, Reduced).
Iron-ammonium citrate, brown, N.F., gran., dms lb. .55 - .60
green, USP XII, gran., dms lb. .55 - .59
Oxalate, fine gran., dms lb. .25½- .28½
Iron-potassium, oxalate, fine gran., dms lb. .30½- .33¼
Iron-sodium, oxalate, fine gran., dms lb. .25½- .28½
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .60 - .70
Formate, dms, lb. .80 - —
Propionate, dms lb. 1.15 - 1.50
Isobutyl acetate, perfume grade, cns. lb. .75 - .97
solvent grade, dms., c.l., dlvd. E. of Rockies lb. .13 - —
l.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11¼- —
Methacrylate, dms., works lb. .60 - —
Isobutyraldehyde, dms., dlvd lb. .50 - —
Isoeugenol, cns lb. 3.70 4.40
Isoniazid, bulk, powder, 25-kilo lots or more kilo.34.00 -35.00
smaller lots kilo.35.00 -36.00
Isonicotinic acid hydrazide (see Isoniazid).
Isopentane, dms., works lb. .43 .88
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb. .23¼- —
Isopropanol (see Alcohol, Isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .11¾- —
l.c.l., same basis lb. .12½- —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, Isopropyl).
Benzene (see Cumene).
Ether (see Ether, Isopropyl).

outstanding as an EMULSIFIER

The higher fatty acid soaps of AMP are powerful emulsifying agents for such materials as cleaners, polishes, dressings, self-polishing floor waxes, emulsion-type paints. AMP's moderately high boiling point (165°C) minimizes evaporation loss and objectionable fumes during manufacture of emulsions—without detracting from desirable water resistance and durability of film. With its advantage of low combining weight (89.14) and its ability to emulsify a wide range of materials, AMP may solve your emulsifying problem.

and CHEMICAL INTERMEDIATE

Readily undergoes a wide variety of reactions. AMP forms substituted amides with esters, anhydrides and acyl halides. Also reacts with many other compounds including alkyl halides, aldehydes, ketones, and carbon disulfide.

AMP can be used in the synthesis of efficient surface-active agents and detergents, and in vulcanization accelerators for rubber.

Also suggested for synthesis of dyestuffs, photographic developers, and pharmaceuticals. Investigate the many ways in which AMP can help improve your products or processes.

NOW AVAILABLE in 55-gallon drums, 5-gallon and 1-gallon cans. For further information and technical service on putting AMP to work for you, call on the Industrial Chemicals Department, Commercial Solvents Corporation, 260 Madison Ave., New York 16, New York.

PROPERTIES OF PURE MATERIAL

Molecular Weight 89.14
Melting Point, °C. ..... 30 to 31
Boiling Point, °C. ..... 165 at 760mm
Specific Gravity ..... 0.934 at 20/20°C
pH at 20°C of 0.1M Solution 11.3
Vapor Pressure at 20°C. ..... approx. 1mm
Flash Point (Tag. open cup) ..... 159°F
Solubility in Water
g/100 ml at 20°C ..... completely miscible

BUTANOL & DERIVATIVES • ETHYL ALCOHOL & DERIVATIVES • METHANOL • AMMONIA AMINOHYDROXY COMPOUNDS • RIBOFLAVIN CRYSTALS • HYDROXYLAMMONIUM SALTS NITROPARAFFINS • FORMALDEHYDE N. F. PENTAERYTHRITOL • ACETONE • METHYLAMINES

INDUSTRIAL CHEMICALS DEPARTMENT

CSC

COMMERCIAL SOLVENTS CORPORATION

ALDEHYDES • ALCOHOLS • ESTERS • AMINES • AMINOALCOHOLS
AMMONIA • NITROPARAFFINS • SOLVENTS • PLASTICIZERS • INTERMEDIATES

Isopropylamine (see Mono-, Di- or Tri-)
Isopropylphenol, dms., c.l., works lb. .46 - —
l.c.l., works lb. .47 - —
tanks, works lb. .45 - —
Isoquinoline, dms., works lb. .65 - 1.25

J

Jaborandi leaves, bls lb. .17 - .18
Jalap root, NF, bls lb. .45 - .55
powd., bbls., bxs lb. .50 - .60
Juniper berries, bgs lb. .13 - .15
Tar, NF, dms lb. .42 - .50

K

Kamala, powd., cns lb. .60 - .65
Kava Kava root, bls lb. .30 - .32
Kaolin (see also Clay, China).
NF, powd., fib. dms lb. .02 - .16½
colloidal, fib. dms lb. .15 - .15½
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks, gal. .0925- —
California, 40-43 s.g., w.w., tanks, gal. .120 - .130
Gulf ports, 41-43 s.g., w.w., tanks, gal. .0970- .1015
N. Y. Harbor, 43-44 s.g., w.w., tanks gal. .1075- —
Okla.-Tex., 41-43 s.g., w.w., tanks gal. .0875- .095
Penn, Western, 45 s.g., w.w., tanks gal. .1125- .1195
Kola nuts, bgs lb. .08 - .09
Kyanite, imp., 60% alumina, low iron content, 10 mesh, bulk, whse ton.95.00 -100.00
calcined, grain, 40-mesh, whse. ton.95.00 -105.00

L

Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .33½- .40½
USP, anhydrous, dms., works lb. .33½- —
hydrous, dms., works lb. .32 - —
Lard, cash, trcs., Chicago lb. .08¼- —
Larkspur seed, bgs lb. .20 .25
Laurel berries, bgs lb. .25 - .26
Leaves, Greek bls lb. .10 - .10½
Portuguese, bls lb. .10 - .10½
Turkish, bls lb. .11½- .12
Yugoslavian, bls lb. .09 - .09½
Lauryl chloride, dms., works, frt. equald lb. .72 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls lb. .55 - .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white crystals, bbls. lb. .22 - —
gran. bbls lb. .23 - —
powd., bbls lb. .23 - —
NF cryst., gran., powd lb. .31 - .32
Arsenate, dealers, acid powder, frt. alld. on 96 lbs. or 3-lb bgs. or larger, c.l., over lb. .27½- —
t.c.l., frt. alld lb. .28½- —
1-lb bgs., c.l lb. .42½- —
t.c.l lb. .43½- —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld lb. .14¾- —
t.c.l., works lb. .15¾- —
Carbonate (see Lead, white).
Chloride, dms lb. .45 - —
Iodide, NF, V, jars lb. 3.82 - —
Linoleate, fused, 26.5% dms lb. .32½- —
Metal, pigs, prime, N. Y lb. .1425- —
St. Louis lb. .1420- —
Metallic paste, dms., 20,000-40,000 lbs., works lb. .34¼- —
10,000-20,000 lbs., same basis, lb. .34¾- —
2,000-10,000 lbs., same basis, lb. .35¼- —
200-2,000 lbs., same basis lb. .35¾- —
Prices ex whse, Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l lb. .1536- —
l.c.l. lb. .1635- —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .17½- —
24% Pb, dms., dlvd lb. .23¾- —
solid, 37% Pb, dms., dlvd lb. .31 - —
Nitrate, bbls lb. .22¼- —
Oleate, fused, bbls lb. .29¾- —
Orthosilicate gel 50% PbO, dms., works lb. .32¾- —
60% PbO dms. works lb. .31¾- —
Peroxide, powd., tech., bbls lb. .43 - .47
Phthalate, dibasic, dms. works. lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., ship't point, frt. alld. lb. .17 - —
l.c.l., same basis lb. .18 - —
97% Pb_3O_4, bbls., c.l., same basis lb. .17¼- —
l.c.l., same basis lb. .18¼- —
98% Pb_3O_4, bbls., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .18½- —
Resinate, precip, dms., dlvd lb. .28½- —
Salicylate, normal, dms., works. lb. .48 - —
Stearate, dibasic, ton lots lb. .54 - —
precip., bbls. c.l lb. .39 - —
ton lots lb. .40 - —
less ton lots lb. .41 - —
Sulphate (see Lead blue; Lead white; basic sulphate).
Tallate, liquid, 16% Pb dms lb. .15¼- —
24% Pb dms lb. .20½- —
White, basic, carbonate, bgs., c.l., ship't point, frt. alld lb. .1625- —
l.c.l., same basis lb. .1725- —
basic silicate, bgs., c.l., ship't point, frt. alld lb. .15 - .1525
l.c.l., same basis lb. .16 - .1925
basic sulphate, bgs., c.l., ship't point, frt. alld lb. .14¾- —
l.c.l., same basis lb. .15¾- —
Lecithin, edible, tech., bleached dms. non-ret., c.l., works. lb. .15½- .16
l.c.l., same basis lb. .16½- .19
unbleached c.l., same basis lb. .14½- .15
l.c.l., same basis lb. .16 - .18
Lemon peel, bls lb. .20 - .26
Leucine dextro-laevo, dms., works. lb. 12.25 -15.00
Licorice extract, mass, cns lb. .21¼- .40
powd., bbls lb. .31¾- .50
Root, bls lb. .05½- .10
5-lb. bundles, cs lb. .50 - .55
powd., bbls lb. .13 - .13¼
Lignin extract, tanning grade, bgs., c.l., works lb .05¼- .06½
Lime, agricultural, bulk, works ton.14.50 - —
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ton.12.50 - —
Annville, Pa ton.11.50 - —
Austin, Texas ton. 9.50 - —
Bellefonte, Pa ton.11.50 - —
Buffalo, N. Y ton.14.00 - —
Cedar Hollow, Pa ton.11.50 - —
Duluth, Minn ton.12.50 - —
El Paso, Texas ton.14.00 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton.12.50 - —
Hannibal, Mo ton.10.00 - —
Keystone, Ala ton.10.25 - —
Kimballton, Va ton.10.25 - —
Knoxville, Tenn ton.10.50 - —
Lee, Mass ton.12.50 - —
Lewisburg, Ohio ton.10.00 - —
Limedale, Ark ton.10.00 - —
Los Angeles, Cal ton.25.10 -26.84
Marble Cliff, Ohio ton.10.00 - —
Martinsburg, W. Va ton.11.00 - —
Mosher, Mo ton.10.25 - —
Nelson, Ariz ton.14.50 -23.65
Quincy, Ill ton.10.00 -13.00
Reddick, Fla ton.13.50 - —
Scotrock, Ala ton.10.25 - —
Springfield, Mo ton.12.25 - —
Winooski, Vt ton.15.50 - —
Woodville, Ohio ton.11.50 - —
York, Pa ton.15.50 - —
Hydrated, paper bags, Adams, Mass ton.15.50 - —
Annville, Pa ton.14.50 - —
Austin, Texas ton.13.00 - —
Bellefonte, Pa ton.14.50 - —
Buffalo, N. Y ton.16.00 - —
Cedar Hollow, Pa ton.14.50 - —
Chicago, Ill ton.15.00 - —
Duluth, Minn ton.14.00 - —
El Paso, Texas ton.17.50 - —
Engle, W Va ton.14.50 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton.16.50 - —
Hannibal, Mo ton.12.00 - —
Keystone, Ala ton.13.50 - —
Kimballton, Va ton.13.50 - —
Knoxville, Tenn ton.13.00 - —
Lee, Mass ton.15.50 - —
Lewisburg, Ohio ton.14.00 - —
Limedale, Ark ton.12.00 - —
Marble Cliff, Ohio ton.13.50 - —
McNeil, Tex ton.13.00 - —
Meneminee, Mich ton.14.00 - —
Mosher, Mo ton.12.50 - —
North Tazewell, Va ton.12.75 - —
Quincy, Ill ton.10.00 -12.00
Lime, hydrated, paper bgs., Reddick, Fla ton.16.00 - —
Scotrock, Ala ton.13.50 - —
Springfield, Mo ton.12.25 - —
Winooski, Vt ton.15.50 - —
Woodville, Ohio ton.14.50 - —
York, Pa ton.14.50 - —
Spray, paper bgs., Adams, Mass. ton.17.00 - —
Annville, Pa ton.17.00 - —
Austin, Texas ton.13.00 - —
Bellefonte, Pa ton.17.50 - —
Carey, Ohio ton.11.00 - —
Duluth, Minn ton.15.00 - —
Engle, W Va ton.14.50 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton.16.50 - —
Keystone, Ala ton.13.50 - —
Kimballton, Va ton.13.50 - —
Lee, Mass ton.17.00 - —
Lewisburg, Ohio ton.16.00 - —
Marble Cliff, Ohio ton.16.00 - —
McNeil, Tex ton.16.00 - —
Meneminee, Mich ton.14.00 - —
Mosher, Mo ton.12.50 - —
North Tazewell, Va ton.12.75 - —
Reddick, Fla ton.16.00 - —
Rockland, Me ton.10.00 - —
Springfield, Mo ton.12.25 - —
Scotrock, Ala ton.13.50 - —
Winooski, Vt ton.17.00 - —
Woodville, Ohio ton.16.50 - —
York, Pa ton.15.50 - —
Lime salts (see Calcium).
Lime ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Limestone, grd. bgs. works ton. 3.50 4.00
Linalool, ex bois de rose, dms lb. 5.60 - 6.55
ex lignaloe wood, dms lb. 6.75 - 7.10

Isopropylamine—Lobeline Sulphate

Linalyl acetate, ex bois de rose, 90-92% dms lb 6.30 6.55
96-98%, dms lb. 6.40 - 7.10
ex petitgrain, bots lb. 4.60 5.05
Linuane, 25% formulation cns., works lb 2.70 —
dms., works lb. 2.60 - —
99%, tech., dms., works lb 5.75 7.00
Linden flowers with leaves, bls lb. .34 - .35
without leaves, bls lb. .40 - .41
Linseed meal, expeller, 36% bulk, Midwest mills ton 82.00 —
extracted, 36%, same basis ton.82.00 - —
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld lb. .16 - —
l.c.l., same basis lb. .17 - —
Lithium benzoate dms lb 1.65 1.67
Bromide, NF bbls., works, frt. equald lb. 2.10 - 2.75
Carbonate, tech., dms lb. .60 - 1.10
Chloride, cryst., dms lb .95 - 1.25
Citrate, NF, bbls., dms., kgs lb 1.05 - 1.40
Fluoride, bbls lb 1.85 - 2.00
Hydride powd., dms., works lb.12.00 -14.00
Hydroxide, monohydrate, dms lb. .91 - 1.05
Salicylate, dms lb. 1.60 - 1.70
Lithopone, ordinary, bgs., c.l., dlvd lb. .07½ —
l.c.l., dlvd. lb. .08¼ .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb higher.
Liverwort leaves, bls lb. .65 .68
Lobelia herb, bls lb. .42 .43
Leaves, NF lb .75 .78
Lobeline sulphate, bots., works oz.33.00 -34.00

HERE'S a new corrosion-resistant finish . . . which contains its own curing agent!

With this amine-cured Epon® resin coating you can spray surfaces of any size . . . in any location . . . and, at room temperature, get toughness and corrosion resistance equal to that of finishes requiring high-temperature baking.

So easy to apply! A single heavy coat of an amine-cured Epon resin finish is practical since the finish converts itself! Conventional finishes require several coats to build up to proper film thickness . . . because air contact is necessary for drying.

All of the advantages of Epon resins . . . extreme durability, abrasion resistance, elasticity, high corrosion resistance, and excellent cold check resistance . . . are also present in this new coating.

Drop us a line for our technical bulletin on Epon resin formulation XA-200 and samples of Epon resins.

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IN CANADA: Chemical Division, Shell Oil Company of Canada, Limited • Toronto • Montreal • Vancouver

Logwood Extract—Oil, Castor, Hydrogenated

Logwood extract, crystals, No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l. lb .39 - —
liquid, No 1, bbls., l.c.l. lb. .20 - —
No 2, bbls., l.c.l. lb. .19 - —
No. 3, bbls., l.c.l. lb. .18½ -
solid, No. lb. .35 - —
Lovage root, imported, bls lb. .65 - .75
Lupulin, tins lb 1.95 - 2.00
Lycopodium cs. lb. 1 70 - 1.75
Lysine hydrochloride, dextro-laevo, bots kilo 145.00 -149.00

M

Mace, Siauw, No. 1, bls lb. .97 - .98
West Indian, No. 1, bls lb. .84 - .85
broken, cs lb. .70 - .72
Magnesia, calcined, tech., ctns. works lb .32 - .34½
synth. rubber grade, ctns., works lb .31 —
USP, light, ctns lb 34 - .36
heavy bbls lb .36 - .38
Magnesite, chemical grade, bgs., c.l. works, frt equald ton 72.50 —
dead burnt, bulk, c.l., standard grain, Chewalah, Wash ton 38 30 —
Magnesium bromide, jars lb 90 1.00
Carbonate, tech, bgs, c.l., frt. equald lb .09½- —
l.c.l. frt alld lb .10½- —
bbls, c.l., frt. equald lb .10¾- —
l.c.l. frt alld lb .11¾- —
kgs, c.l., frt. equald lb .12 —
l.c.l., frt. alld lb .13 —
USP, bgs., c.l., frt. equald lb .11¼- —
l.c.l., frt alld lb .12¼- —
bbls, c.l., frt. equald lb .11¾- —
l.c.l. frt. alld lb .12¾- —
kgs., c.l., frt equald lb .13 —
l.c.l. frt alld lb .14 —

Magnesium carbonate is quoted frt. alld. to N J except to Atlantic, Burlington, Cape May, Cumberland, Gloucestershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N Y C on all other destinations.

Chloride, anhyd., lump., 95-98%, drums, c.l., works, frt. equald lb. .12¾- —
l.c.l., same basis lb .14 - .15
powd., bbls., works ton 50 00 —
hydrous, flake, dms., l.c.l. works ton 49.00 -51.00
Gluconate, dms., cns lb. 1.30 - 1.37
Glycerophosphate, dms., works lb 5.10 5.20
Hydroxide, NF, medicinals, bbls., dms., kgs lb .26½- .30
Hypophosphite, dms lb. 1.60 —
Laurate, bbls lb. .46 - .47
Metal, 99.8% ingots, cs., works, lb. .24½- —
sticks, cs., works, frt. alld. on carlots lb. .42 - .44
Oleate, fused, bbls lb. .31 - —
Oxide (see Magnesia, calcined),
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc),
Silicofluoride, bbls, works lb. .12 - .14
Sulphate (see Epsom salt),
Stearate, ctns., c.l. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb .40 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .36 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher

Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .37 - —
l.c.l., dlvd. E. of Rockies lb. .38 - —

Prices on maleic anhydride W of Rockies, 1½c. higher.

Malva flowers, black, bls. lb. .90 Nom.
blue, bls lb 1.65 2.00
Leaves, bls lb .35 .38
Mandrake root, bls lb. .29 - .30
Manganese acetate, bbls, dlvd lb. .32½- —
Arsenate, bgs lb. .16 - —
Borate, tech., bbls lb. .24 - —
Carbonate, bbls., works lb. .21 - .22
Chloride, anhyd., dms., works lb. .20 - .22
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., gross for net, works ton 83.00 - —
paper-lined burlap bgs., works ton 86.00 - —
dms., works ton 88.50 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Gluconate, dms, cns lb. 1.86 - 1.93
Glycerophosphate, NF, fib, dms. lb. 4.70 - 4.80
Hydrate, bbls., dlvd lb. .33¼- —
Hypophosphite, NF, dms lb. 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb. .30½- —
solid, precip., 5.2% Mn., bbls lb. .33½- —
Metal, cs., dlvd, East lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld lb. .25 - —
Oleate, precip, bbls lb. .33½- —
Resinate, fused, 3½% Mn., dms lb. .21¾- —
precip., dms lb. .24½- —
Stearate, ctns., c.l. lb. .38 - —
ton lots lb. .39 - —
less ton lots lb. .40 - —
Sulphate, fertilizer grade, 65% bgs., c.l., dlvd, S. E ton. 75.50 - —
l.c.l., dlvd., S. E ton. 82.50 - —
feed grade, 75%, bgs, c.l., dlvd, S.E ton. 87.50 - —
l.c.l., dlvd S. E ton. 94.50 - —
Tallate, 6%, dms lb 21¼- —
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock ton. 79.00 -80.00
So. American, 30% tannin, c.l., ex dock ton. 58.50 -60.00
Manna, flake, large, cs lb 1 25 1.30
small, cs lb. .80 - .95
Mannitol, com'l, dms., works lb 40 - .43
reagent, 50-lb. dms, works lb 85 - —
Marjoram, Bohemian, bls. lb. .23 - .23½
Cnilean, bls lb. .23 - .24
French, bls lb. .29 - .29½
Peruvian, bls lb. .20 - .21
Matico leaves, bls lb .25 - .35
Melamine, bgs., ton lots, works lb 33 - —
500 to 2,000-lb. lots, works lb .33½- —
less than 500-lb. lots, works lb. .38½- —
Menadione, USP, bots gram .06 - .06½
Menthol, natural, USP, Brazilian, cs lb. 5.00 - —
Japanese, cs lb. 0.70 Nom.
synthetic, USP, racemic, cns lb. 4.95 - —
Menthyl salicylate, tins lb 4.00 4.25
Mercaptobenzothiazole, bgs., nb. dms, ton lots, works frt. alld lb. .34 - .35
less ton lots, same basis lb. .36 - .37
Mercaptobenzothiazole disulphide, bgs., fib, dms., ton lots, works, frt alld lb. .42 - .45½
less ton lots, same basis lb. .44 - .45½
Mercury ammoniated (see White precipitated),
Bichloride (see Corrosive sublimate),
Chloride (see Calomel),
Cyanide, NF VIII, powd, fib, dms lb 5.29 - —
Iodide, red, NF, fib, dms. lb 6.22 - —
yellow, NF, fib dms lb 6.47 - —
Metal (see Quicksilver),
Mercury oxide, red, NF (see Red precipitate),
tech (see Red, mercury oxide),
yellow, tech (see Yellow, mercury oxide),
USP, fib dms lb. 4.64 - —
Mesityl oxide, dms., c.l., dlvd lb. .13¼- .14¼
l.c.l. dlvd lb. .14 - .15
tanks, dlvd lb. .11½- .12½
Metaldehyde, dms., works lb. .95 - 1.25
Meta-aminophenol, distilled, dms., ton lots lb 2.05 - —
less than ton lots lb 2.50 - —
Metachloranilin, dms., works lb. .80 - —
Metacresol, 98%, dms., c.l., works lb. 7.3½- —
l.c.l. works lb. 7.4½- —
Metanitroanilin, dms., frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls lb. 1.54 - —
Metaphenylenediamine, kgs, frt alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld lb. .78 - —
l.c.l., same basis lb. .90 - —
tankcars, same basis lb. .76 - —
Metatolylenediamine, fib, dms., frt. alld lb. .94 - 1.00
Methanol, natural denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l. frt alld gal. .79 - —
tanks, frt alld gal. .70 - —

Prices on natural methanol W of Miss. 3c. higher

Synthetic, Zone 1, dms., c.l., frt. alld lb. .44 - .45½
l.c.l. frt. alld gal. 49 .50½
tanks, frt. alld gal. .32 .33½
Zone 2, dms., c.l., frt. alld gal. 49½- —
l.c.l., ex whse gal. .54 - —
tanks, frt. alld gal. .35½- —

Synthetic methanol zones are:—Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of the U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib dms., frt alld 50-lb or more lb 4.55 - —
feed grade, 98%, fib., dms., same basis lb 3.00 - —
97%, fib dms, same basis lb 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms, cs., frt. alld lb. .61 .64
Methyl abietate, non-ret, dms., c.l., dlvd., zone 1 lb. .19½- —
l.c.l., same basis lb. .20 - —
hydrogenated non-ret, dms., c.l., dlvd., zone 1 lb. .20 - —
l.c.l., same basis lb 20½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, natural, dms., c.l., E. of Miss., frt. alld gal. .57 - —
l.c.l., same basis gal. .68 - —
tanks, same basis gal. .45 - —

Natural methyl acetone prices W of Miss. 3½c per gal. higher

synthetic, dms., c.l., dlvd. E gal. .66½- —
l.c.l., dlvd E gal. .72¼- —
tanks, dlvd. E gal. .54½- —

Synthetic methyl acetone East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of those four.

Acrylate, dms, c.l., and truckload, works lb. .50 - —
less than truckload works lb. .50½- —
tankr, works lb. .49 - —
Alcohol (see Methanol),
Anthranilate, cns. lb 2.35 2.40
extra, cns lb. 2.65 4.40
Benzoate, cns., dms lb. .53 .59
Bromide, jobbers, cyls., various sizes, works lb. .47 - .61
Chloride, indust., cyl. works lb. .18 - —
tanks, multi-unit works lb. .14 - —
single-unit, works lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .39 - .45
other consumers or service men, cyls. dlvd lb. .486 - —
Cinnamate, cns. lb. 1.43 - 1.50
Cyclohexanol, dms., c.l., works lb. .34½- —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Formate refd., dms lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .06 - —
tanks, works lb. .07 - —
Lactate, dms., l.c.l., works lb. .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb. .36½- —
less than truckload, same basis lb. .37 - —
tanks, same basis lb. .35 - —
Methyl parahydroxybenzoate, USP, bots lb. 2.10 - 2.20
fib dms lb. 1.90 - 2.00
Roseanilin chloride, NF, fib dms. lb. 5.40 - —
Salicylate, USP, dms., 500 lbs lb .50 - —
cns., 50 lbs. lb .55 - —
Testosterone, USP 100 gms gm 1.75 - —
Methylal, refined, 97%, dms., c.l., works lb. .12¾- —
l.c.l., works lb. .13½- —
tanks, works lb. .11 - —
tech., 92%, dms., c.l., works gal. .85 - —
l.c.l., works gal. .85 - —
tanks, works gal. .70 - —
Methylamyl acetate, dms., c.l., dlvd. E lb. .14¼- —
l.c.l., dlvd. E lb. .15½- —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb bgs, c.l., works lb. .78 - —
2,000 lbs., and more, same basis lb. .80 - —
smaller lots, frt. alld on 100 lbs. .85 - .97
standard vis. (15-400 cps.), 50-lb. bgs., c.l., alld lb. .66 - —
2,000 lbs. and more, same basis lb. .68 - —
smaller lots, frt. alld on 100 lbs lb. .72 - .85
Methylene blue, 100-lb. lots, kgs., frt. adjusted lb 3.25 3.60
smaller lots, kgs., same basis lb 3.40 3.60
Chloride, industrial, dms., c.l., dlvd. E lb. .13½- —
Methylethylketone, dms., c.l., dlvd. lb. .12¾- .13¾
l.c.l. dlvd. lb. .13½- .14½
tanks, dlvd. lb. .11 - .12
Methylethylpyridin, dms., c.l., works. lb. .47½- —
l.c.l. works lb. .48 - —
tanks, works lb. .46 - —
Methylheptin, carbonate, bots lb. 35.00 -45.00
Methylionone, A, cns lb 8.55 8.80
D, cns lb 7.50 9.55
prime, cns lb. 4.55 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl).
Ketone, dms., c.l., dlvd lb. .14¾- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .13 - —
Methylnaphthyl, ketone, cans lb. 3.00 - 3.75
Methylparaben (see Methyl parahydroxybenzoate),
Methylpentanediol (see Hexyleneglycol),
Methylphenylpyrazolone, 250-lb. dms., dlvd lb. 1.60 - 1.70
less than 250 lbs., dms., dlvd lb. 1.80 - 1.90
Methylthionine chloride (see Methylene blue),
Mica, dry-grd., paint, plastic, 100 mesh, bgs., c.l., works lb. .04½- —
roofing, 20 to 80 mesh, works lb. .03½- —
wet-grd., biotite, bgs., c.l., works, frt. alld., E lb. .05¾- —
l.c.l., ex whse. or frt allds, E lb. .06½- —
extra fine, bgs., c.l., works, frt. allds. E lb. .05¾- —
l.c.l., ex whse. or frt. allds, E lb. .06½- —
paint or lacq., bgs. c.l., works, frt. allds., E lb. .07¼- —
l.c.l., ex whse. or frt. allds, E lb. .08 - —
rubber, bgs., c.l., works, frt. allds. E lb. .07 - —
l.c.l., ex whse. or frt allds, E lb. .07¾- —
wallpaper, bgs., c.l., works, frt. allds E lb. .07¼- —
l.c.l., ex whse. or frt allds, E lb. .08 - —
white, extra, fine, bgs., c.l., works, frt. allds. E lb. .07¼- —
l.c.l., ex whse. or frt allds, E lb. .08 - —
Mica, wet-grd., W. of Miss. R., ¼c. higher; W of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l. lb. .15½- .18¾
spray, bbls., c.l. lb. .16¾- .19¾
whole, roller, bbls., c.l. lb. .33 - .37
spray, bbls., c.l. lb. .35½- .44¼
Sugar, crude, bgs., c.l., works, lb. .18 - —
edible, bgs., works, 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb. lots, works lb. .25¼- —
Edible milk sugar in fib dms., 1c. higher.
USP, fib. dms., 30,000-lb. lots, lots, works lb. .29 - —
2,000-lb. lots, works lb. .29¾- —
200-1,800-lb. lots, works lb. .30¼- —
USP milk sugar in bgs, 1c. lower
Mineral spirits (see Petroleum mineral spirits),
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .09½- —
New York gal. .10½- —
Molybdenum metal, 85% Mo. powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.13 - 1.14
Monobutylamine, dms., c.l., E. of Rockies lb. .54¾- —
l.c.l., same basis lb. .55¾- —
tanks, same basis lb. .53 - —
Monochlorobenzene, dms., c.l., frt. allds. or dlvd. E. lb. .10½- .11½
l.c.l., same basis lb. .11½- .12¼
tanks, same basis lb. .09 - .10

Monochlorobenzene prices in the West, 1¾c. higher

Monoethanolamine, dms., c.l., dlvd. E. lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Monoethylaniline, dms., works lb. .88 - —
Monoethylamine, 70% contained amine, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30¼- —
Monoethylaniline, dms., c.l., frt. allds. lb. .51 - .57
l.c.l., frt. allds lb. .52 - .58
tanks, frt. allds lb. .50 - .56
Monoethylorthotoluidin, bbls lb. .80 - —
Monoisopropylamine, dms., c.l., frt. ald. E. of Rockies lb. .30½- —
l.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%, lb. .35 - —
l.c.l., same basis lb. .35½- .36
tanks, same basis lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic),
Glutamate (see Sodium glutamate, monobasic),
Phosphate (see Sodium phosphate monobasic),
Mono-tertiary butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks works lb. 48 - —
Morphine, cns. oz. 12.40 -12.60
Acetate, anhyd., cns oz. 9.95 -10.00
Hydrobromide, cns oz. 9.90 9.95
Hydrochloride, NF, cns oz. 9.90 9.95
Sulphate, USP, cns oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd. E lb. .60¾- —
l.c.l. dlvd. E lb. .61¾- —
tanks, dlvd E lb. .59 - —
Mullein flowers, cs lb. 2.00 - 2.05
Leaves, bls lb. .21 - .25
Musa, natural, Tonquin grains, bots. oz. 40.00 - 55.00
synthetic, ambrette, 100-lb. lots, fib. dms lb. 5.35 - —
25-lb. lots, cns lb. 5.40 - —
5-lb. lots, cns lb. 5.55 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb. lots, cns lb. 5.35 - —
5-lb. lots, cns lb. 5.50 - —
xylol, 100-lb. lots, fib. dms lb. 1.50 - —
25-lb. lots, cns lb. 1.55 - —
5-lb. lots, cns lb. 1.70 - —
Musk root, bls lb. 1.60 1.65
Mustard seed, Calif. brown, bgs., f.o.b. source lb. .12 - —
Danish, yellow, bgs lb. .10¾- .11
Dutch, yellow, bgs lb. .11 - .11½
English, yellow, bgs lb. .12 - .12½
German, yellow, bgs lb. .10½ Nom.
Japanese, yellow, bgs lb. .10 - .10¼
Montana, brown, bgs., f.o.b. source, Sept.-Oct. shipment lb. .08 - —
oriental, bgs., source, Sept.-Oct. shipment lb. .05½- —
yellow, bgs, source, Sept.-Oct. shipment lb. .09¼- —
Myrobalans, J1, ord. bgs., ex dock ton. 47.00 - —
assorted, ex dock ton. 48.50 - —
crushed, bgs., ex dock ton. 65.00 -66.00
Extract, Indian solid, 53% tannin, ex dock plus duty lb. .07 - —

N

Naphtha, painters (see Petroleum naphtha V. M. & P.),
Solvent (see S),
Naphthalene, dom., crude, 74°, tanks, frt. equald lb. .0625- —
78°, dms., c.l., same basis lb. .0765- —
l.c.l., same basis lb. .0790- —
tanks, same basis lb. .0675- —
Naphthalene, refined, industrial, bbls., c.l., frt. equald lb. .11¾- —
bgs., c.l., same basis lb. .11¼- —
tanks, same basis lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis, lb. .14½- —
cs., 50 lbs., c.l., same basis lb. .14¾- —
1-lb. pkgs. c.l., same basis lb. .17 - —
imported, eruda, 78° large lots, lb. .0385- .04
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, fib, dms., 100-kilo lots, basis activity gm. .60 - —
1-kilo lots gm. 1.20 - —
Nepheline syenite, glass, 24 mesh, bulk, works ton. 14.25 - —
pottery, 200 mesh, bulk, works, N.Y ton. 18.25 - —

Nepheline syenite in bgs., $3 per ton higher than bulk.

Nerolin, cns lb. 2.25 - 2.65
Niacin (see Acid nicotinic),
Niacinamide (see Nicotinamide),
Nickel acetate, bbls., dlvd lb. .60 - .60½
Carbonate, bbls., dlvd lb. .66¼- —
Chloride, bbls., dlvd lb. .34½- —
Cyanide, bots., dms lb. 4.50 - —
Formate, bbls., ton lots, frt. allds, lb. .58½- .59½
Metal, electro cathodes, cs., works, lb. .56½- —
Nitrate, bbls., works lb. .33½- —
Oxide, black, bbls lb. .63¼- —
Sulphate, bgs., c.l., dlvd lb. .26¼- —
l.c.l., dlvd lb. .26¾- —
Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 -12.30
Hydrochloride, dms, frt. adjusted kilo. 11.50 -11.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld. over 70 lbs. dm. 49.40 - —
10-lb tins, dealers, frt. allds. on cases of 6 tin. 10.85 - —
Niger seed, bgs., afloat lb. .11½- .12
Nikethamide, cbys lb. 7.50 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. allds lb. .10½- .11¼
l.c.l., frt. allds lb. .11½- .12¼
tanks, frt. allds lb. .09½- .10¼
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .33 - —
l.c.l., same basis lb. .34 - .36
18-25 cps., bbls., c.l. lb. .35 - —
l.c.l., same basis lb. .36 - .38
250-400, 600-1,000 secs., bbls., same basis lb. .42 - —
l.c.l., same basis lb. .43 - .45
spirit-soluble, 30-35 cps., ¼, ½, sec., bbls., c.l., same basis, lb. .45 - —
l.c.l., same basis lb. .46 - .48
5-6, 40-60 secs., bbls., c.l., same basis lb. .44 - —
l.c.l., same basis lb. .45 - .47

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

Nitroethane, dms., dlvd. E. of Rockies, lb. .25 - —
Nitrogen solution, tanks, works, 37-40.8% N ton. 120.00 -123.00
Nitrogenous process tankage, bulk, works unit-ton. 5.00 Nom.
Sewage sludge, bulk, works unit-ton. 3.75 ± .50
Nitromethane, dms., l.c.l., dlvd. E. of Rockies lb. .25 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼- —
2, dms., dlvd. E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works lb. .33¾- —
tanks, works lb. .32¼- —
Nutgalls, Aleppo, bgs lb. .38 - —
Chinese, bgs lb. .32 - —
Istrian, bgs lb. .31 - —
Nutmeg, East Indian, whole, cs. lb. .34½- .35
shrivels, bgs lb. .33 - .34
West Indian, bgs lb. .28½- .29
Nux vomica, bls lb. .10 - .12
powdered, bbls., bxs lb. .13 - .14

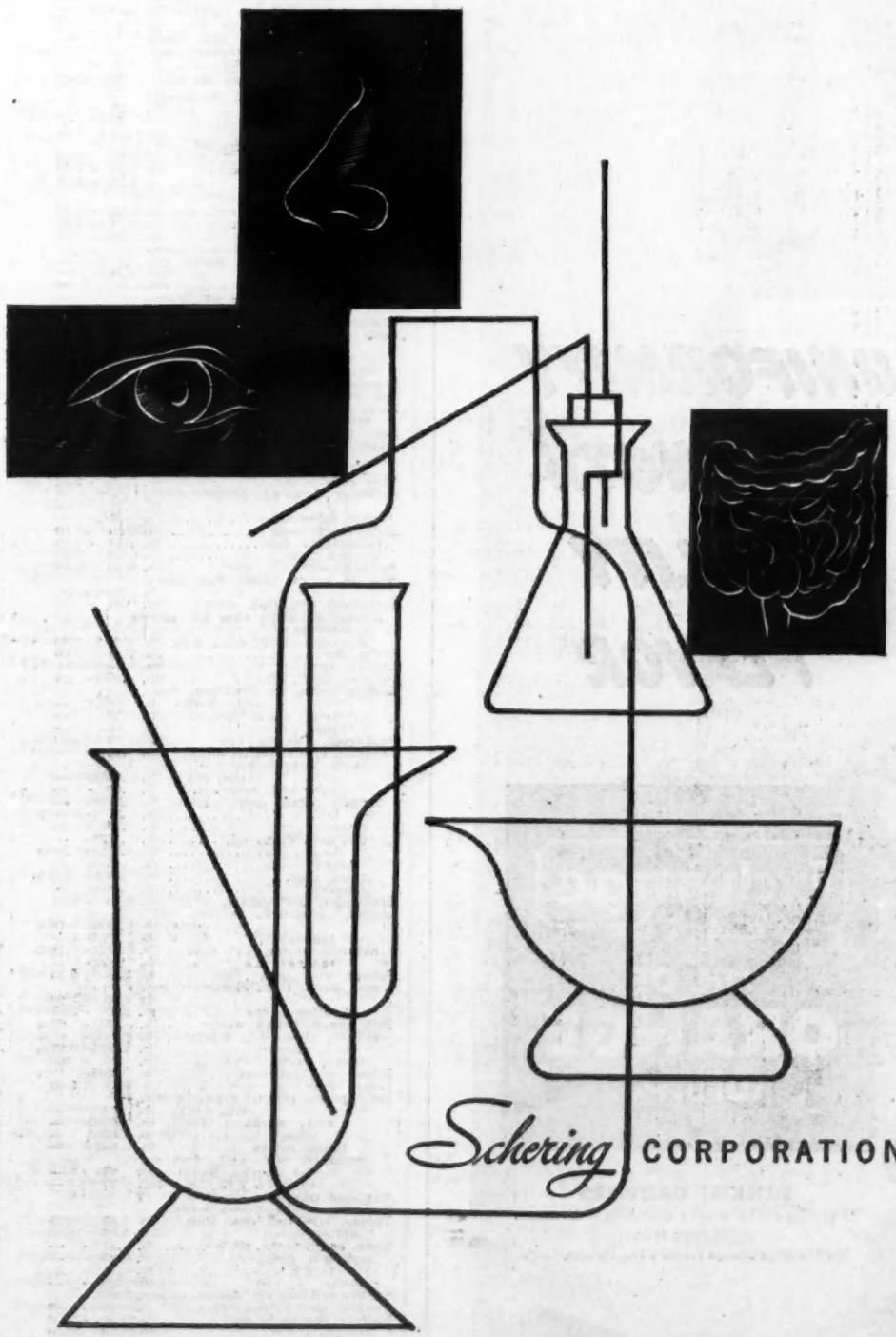
O

Octane, 100°-140°C., industrial grade, group 3, dms., c.l gal. .19 - —
l.c.l. gal. .21 - .60
tanks gal. .15½- —
100°C., b.r., Bayonne, N. J., tanks, gal. .18 - —
Octanol, normal, tech., dms., c.l., dlvd lb. .419 - —
l.c.l., dlvd lb. .439 - —
tanks, dlvd lb. .394 - —
Octyl methacryiate, normal, dms., less than truckload, works, lb. .83 - —
Octylphenol, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, works lb. .25¾- —
Oil, abies siberica, cns lb. 2.50 - 3.10
Almond, artificial, bitter (see Benzaldehyde),
natural, bitter, F.P.A., bots lb. 2.75 - 4.75
NF, bots lb. 2.85 - 3.75
sweet, USP, dms., cns lb. .55 - .90
Allspice (see Oil, pimento),
Amyris, dms lb. 1.65 - 1.90
Angelica root, bots lb. 115.00 -120.00
seed, bots lb. 50.00 -95.00
Anilin (see A),
Anise, USP, Chinese, dms lb. 2.25 - 2.75
Apricot, kernel, USP, dms lb. .34 - .60
Avocado, cns., dms lb. No prices.
Babassu, crude, tanks lb. No stocks
Bay, NF, Puerto Rican, 50-55%, cns. lb. 1.55 - 1.90
55-60%, cns lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms. lb. 1.45 - 2.25
Bergamot, artif., cns lb. 2.90 - 3.00
natural, NF, Italian, cns lb. 11.75 -14.50
Birchtar, crude, cns lb. 2.00 - 2.10
rectified, NF, cns lb. 3.15 - —
Bois de Rose, Brazil, dms lb. 3.35 - 4.60
Mexican (see Oil, lignaloe wood),
Bone, dms., works lb. .65 - .70
Cajeput, redist., USP, cns lb. 2.30 - 3.00
tech., cns lb. 1.95 - 2.85
Calamus, cns lb. 10.00 -20.00
Camphor, sassafrassy, dms lb. .26 - .42
white, dms lb. .26 - .50
Cananga, native, cns lb. 10.50 -11.50
rectified, cns lb. 14.00 -14.50
Capsicum (see Capsicum oleoresin),
Caraway, NF, cns lb. 3.00 - 3.75
Cardamom, NF, bots lb. 43.00 -55.00
Cassia, USP, cns., dms lb. 5.25 - 7.50
Castor, blown, dms., c.l lb. .2900- —
l.c.l. lb. .2950- —
dehydrated, bodied, dms., c.l., lb. .3210- —
l.c.l. lb. .3260- —
tanks lb. .3110- —
unbodied, dms., c.l. lb. .3060- —
l.c.l. lb. .3110- —
tanks lb. .2960- —
hydrogenated, bgs lb. .3425- .3475

THERE'S SOMETHING SPECIAL IN

Schering SULFONAMIDES

Just as in the hormone and antihistamine fields, Schering manufactures outstanding products in the sulfonamide field. Each of the Schering sulfonamides has special features that can make *your* product a preferred one.



SULFACETAMIDE

Unsurpassed safety and effectiveness—"the sulfonamide of choice" for your sulfonamide combination.

SODIUM SULFACETAMIDE

A "natural" for eye or nose infections—the only sulfonamide soluble in 30% concentration at physiologic pH.

PHTHALYLSULFACETAMIDE

Used for intestinal infections, this sulfonamide stays in the gut—where needed—without producing detectable blood levels.

The Schering sulfonamides can be supplied in bulk in any amount you need.

Schering CORPORATION • BLOOMFIELD, NEW JERSEY

Bulk Sales Division

Oil, Castor, No. 1—Oil, White Mineral, Technical

Oil, castor, No. 1, Brazilian, tanks. lb. .25¼- —
No. 1, Brazilian, tanks lb. .25¼- —
USP, dms., c.l. lb. .2700- —
l.c.l. lb. .2750- —
tanks lb. .2600- —
refined and deodorized, dms., c.l. lb. .2850- —
l.c.l. lb. .2900- —
tanks lb. .2750- —
No. 3, tech., dms., c.l. lb. .2675- —
l.c.l. lb. .2725- —
tanks lb. .2575- —
sulphonated, 50% (48% fat), dms., l.c.l lb. .16½- .17
75% (60-62% fat), dms., l.c.l. lb. .23 - .23½
Cedarleaf, cns., dms lb. 2.25 - 2.80
Cedarwood, cns., dms lb. .48 - .75
Celeryseed, bots lb 16 50 -21 00
Chamomile, blue, Hungarian, bots lb. 250.00 -260.00
Chaulmoogra, NF, cns, dms lb 55 70
Chinswood (see Oil, tung)
Cinnamon bark, USP, bots lb. 23.00 -60.00
leaf, Ceylon, bots lb 2.00 3.25
Citronella, Ceylon, cns., dms lb. .53 - .90
Java, true, cns lb 1.10 1.90
Java type, cns lb .45 .85
Clove, USP, from buds, cns., dms. lb. 9.50 - 9.75
Coconut, crude, tanks, N. Y. lb. .17 - —
Pac. Coast lb. .16 - —
refined, Cochin type, tax incl., ret. dms. l.c.l lb. .23½- —
deodorized, tax incl., non ret. dms., c.l. lb. .24¾- —
Cod, Newfoundland, dms lb. .10 .10½
Codliver, USP, dms gal. 1.55 - 1.65
Copaiba, cns lb 2.00 2.50
Coriander, USP, bots lb. 21.00 -28.50
Oil, corn, crude, tanks, works lb. .14¼- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .04½ Nom.
raw, 80%, tanks, same basis. lb. .02¼ Nom.
refined, dms. lb. .19½- .19⅞
tanks lb. .17¾- —
Costus, bots oz. 14.00 -25.00
Cottonseed, crude, tanks, Southeast lb. .14¼- —
Valley lb. .14¼- —
Texas lb. .13½- —
foots (soapstock), acid, 95%, tanks, N. Y lb. .02½- —
raw 50%, tanks, same basis. lb. .01¼- —
salad, dms. lb. .19½- .19¾
tanks lb. .18 - —
Creosote (see Creosote, coaltar).
Croton, cns lb. 4.30 5.50
Crude (see Petroleum, crude).
Cubeb, cns lb. 4.50 - 6.75
Cumin, bots lb. 4.90 6.00
Cypress, bots lb. 6.00 —
Degras (see D)
Dillseed, India, bots lb. 2.80 - 4.25
Dillweed, domestic, bots., dms lb. 4.00 - 5.25
Dip (see D)
Erigeron, cns lb. 6.50 7.50
Eucalyptus, NF, rectified, 80-85%, dms lb. 1.00 - 1.35
70-75%, dms lb. .85 - 1.25
Fennel, sweet, USP, cns lb. 2.30 - 3.50
Fir, Canada, cns lb. 2.65 2.90
Fish, refined, alkali, dms lb. .1410- —
kettle-bodied, dms lb. .1610- —
light-pressed, dms. lb. .1260- —
tanks lb. .1100- —
Oil, fishliver, crude, for feeds for concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .12 - .13½
10,000 to 20,000 A units per gm., dms 1,000,000 units. .12 - .12½
25,000 to 35,000 A units per gm., dms 1,000,000 units. .12 - .12½
40,000 to 55,000 A units per gm., dms 1,000,000 units. .12 - .13
prime, nat. or conc., 100,000 A units per gm., dms. 1,000,000 units. .13 - —
200,000 A units per gm., dms. 1,000,000 units. .15 - —
300,000 A units per gm., dms. 1,000,000 units. .15 - —
400,000 A units per gm., dms. 1,000,000 units. .15 - —
500,000 A units per gm., dms. 1,000,000 units. .15 - —

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Fusel (see F).
Garlic, pure, bots oz. 7.25 -10.00
Gaultheria (see Oil, wintergreen)
Geranium, Algerian, cns lb. 12.25 -16.50
Bourbon, cns. lb. 12.00 -16.50
Turkish (see Oil, palmarosa)
Ginger, dist., bots lb. 14.00 -15.00
Grapefruit, dms lb. 2.40 - 3.00
Grease, No. 1, dms lb. .10½- .11½
extra, winter, strained, dms lb. .11½- .12½
prime burning, dms lb. .12½- .13½
Guaiacwood, cns lb. 1.40 - 1.90
Hemlock, cns lb. 2.10 2.50
Juniper berry, NF, VIII, bots lb 2.50 2.75
twice rectified, bots lb. 3.60 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .65 1.00
Lard (see Oil, grease).
Oil, laurel, dms., cns lb. 9.75 -12.50
Lavandin, dms., cns lb. 2.50 - 3.25
Lavender, flower, USP, French, 30-32% ester, cns lb. 3.10 - 4.75
38-40% ester, cns lb. 4.85 - 6.75
40-42% ester, cns lb. 6.00 - 6.75
Spike, Spanish, cns lb 1.50 2.00
Lemon, USP, Calif., cns., dms lb. 5.65 - 6.00
Messina, cns lb. 5.75 - 9.50
Lemongrass, cns., dms lb. .95 - 1.40
Lignaloe wood, Mexican, cns lb. 3.15 - 4.50
Lime, distilled, Mexican, cns lb. 6.00 - 7.85
West Indian, cns lb. 7.00 - 8.25
expressed, West Indian, cns lb. 7.85 - 9.25
terpeneless, bots lb. 45.00 -65.00
Linseed, raw, dms., c.l., N. Y. lb. .1760- —
l.c.l. lb. .1810- .1850
tankcars, f.o.b. Minneapolis lb. .1470- —
New York lb. .1595- —
tankwagon, N. Y. lb. .1625- —
Boiled, linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms lb. 2.95 - 4.25
Mandarin, Floridian, dms lb. 5.00 - 5.90
Italian, cns lb. 6.00 -12.00
Menhaden, crude, tanks, Balto lb. .07½- —
Mineral white (see Oil, white, mineral)
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms lb. .16 - .16½
synthetic, cns., dms lb. 1.60 - 1.85
Neatsfoot, 15° dms lb. .31 - .33
20° dms. lb. .30 - .32
30° dms. lb 28 .30
Neroli, NF, French, bots lb. 216.00 -275.00
petale, bots lb. 40.00 -150.00
Nutmeg, USP dist., East Indian, cns., dms lb. 3.35 4.05
West indian, cns., dms lb. 2.95 - 3.50
Ocotea cymbarum, dms lb. .58 - 1.00
Oiticica, liquid, dms lb. .26½- .27
tankcars lb. .25 - .25½
Oleo, extra, dms lb. .11½- .12
Olibanum, bots lb. 5.50 7.65
extra fine, bots lb 8 00 —
Olive, commercial, dms gal. 2.05 - —
edible, dms., duty paid gal. 2.35 - 2.50
foots, dms lb. .15 .15¼
Orange, sweet, dist., cns lb. .70 - .80
expressed USP Brazilian, cns., dms lb No stocks.
Calif., cns. lb. 1.00 - 1.75
Florida, cns. lb. .90 - 1.75
Messina, cns lb 4.00 5.85
West Indian, cns lb 2.75 3.35
sesquiterpeneless, bots lb. 150.00 -180.00
Origanum, Spanish, cns lb. 2.15 2.75
Palm, clarif., dms lb. .1260- —
tankcars lb. .1170- —
Palmarosa, cns. lb. 6.75 - 8.40
Palm kernel, in bond, tanks lb. .14½- —
Paraffin, pale, 100-110 vis., at 100°F tanks, East Coast refinery gal 14 —
Patchouli, dms. lb. 6.75 - 8.75
Peach kernel, USP (see Oil, apricot kernel)
Peanut, crude, tanks, Southeast. lb. .26 - —
refined, dms. lb. .31¾- —
tanks lb. .29¾- —
Pennyroyal, USP, imported, cns. lb 2.00 - 2.40
Peppermint, natural, dms lb. 5.50 - 7.25
redist., USP, dms lb. 5.75 - 8.25
Persic, USP (see Oil, apricot kernel)
Petitgrain, Paraguay, cns., dms. lb. 2.35 - 3.10
Pimento berry, NF, dms lb. 4.90 - 5.75
leaf, cns. lb. 2.35 - 3.25
Pine, dest., dist., dms., extra, c.l., works gal. 75½- —
l.c.l. gal. 76½- —
whse. gal. .95½- —
steam dist. dms., ex whse., N.Y.C lb 127 128
Pineneedle, Siberian (see Oil, abies siberica).
Putty, petroleum, dms, c.l., divd. lb. .11 - —
l.c.l. same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .16½- —
Red (see Acid, oleic).
Rice, bran, clarif., dms lb. .16 - —
crude, tanks, divd. E lb. .12¾- .13
Rose, natural, Bulgarian, bots oz. 50.00 -62.25
Rosemary, Spanish, tech., cns., dms lb. 60 90
USP, cns., dms lb. .80 - 1.00
Rue, bots lb. 1.95 - 2.65
Safflower, dms., c.l., Atlantic coast. lb. .17 - —
tanks, same basis lb. .15½- —
Sage, clary, bots lb. 20.00 -25.00
Dalmatian, cns lb. 7.50 - 9.75
Spanish, cns lb. .90 - 1.25
Sandalwood, NF, cns lb. 9.75 -11.80
Sardine, crude, tanks, Pac. coast. lb. No stocks.
Sassafras, artificial, dms lb. .50 - .70
natural, Brazilian (See Oil, ocotea cymbarum)
domestic, USP, cns., dms lb. 1.90 - 2.25
Savin, cns lb. 2.75 - 3.00
Savory, cns. lb. No stocks.
Sesame, refd., dms lb. .36½- .37
Shingle stain, tar distillate, dms., c.l., works lb. .31 - —
l.c.l., works lb. .33 - —
tanks, works lb. .21 - —
Snakeroot, Canada, cns lb. 31.00 -38.50
Soybean, crude, tanks, mills lb. .13¼- —
foots (soapstock), acid, 95%, tanks, N. Y. lb. .04¾- —
raw 50%, tanks, N. Y. lb. .02 - —
refined, alkali, dms., c.l. lb. .1725- —
l.c.l. lb. .1775- .1800
tanks lb. .1575- —
clarified, dms., c.l. lb. .1625- —
l.c.l. lb. .1725- .1750
tanks lb. .1525- —
salad, dms. lb. .1750- .1775
tanks lb. .1600- —
Spearmint, USP, dms lb. 7.75 - 9.00
Sperm, bleached, winter, 45°, dms lb. .1630- .1660
tankcars lb. .1520- —
natural, winter, 45°, dms lb. .1510- .1560
tankcars lb. .1400- —
Spruce, cns., dms lb. 2.10 2.75
Sweet birch, USP, Northern, cns. lb. 4.95 - 8.00
Southern, cns lb. 2.00 - 3.25
Tall, crude, tanks, works lb. .02¼- .02¼
refined, dms., c.l., works lb. .03¼- .07¼
l.c.l., works lb. .06½- .07½
tanks, works lb. .05 - .06
Tallow, acidless, dms lb. .09¾- .10¼
Tansy, dms lb. 8.25 9.00
Tar, pine, com'l, dms., extra, c.l., works lb. .0488- —
l.c.l., works lb. .0545- —
whse. lb. .0655- —
tanks, works lb. .041 - —
rectified, N.F., l.c.l., dms. ex. tra, works, South gal. .67 - —
whse N.Y.C. gal. .77 - —
Tar acid (see T)
Theobroma (see Cocoa butter)
Thyme, NF, red, cns., dms lb. 1.90 - 2.75
white, cns lb 2.25 4.00
Tung, dom., tanks, mills lb. .31½- —
imported, dms., c.l. lb. .34¾- —
l.c.l. lb. .35¼- .35¼
tanks lb. .33 - —
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms lb. 20 - .40
Vetiver, Bourbon, cns lb. 20.00 -25.00
Haitian, cns. lb. 17.50 -26.00
Java, cns lb. 29.00 -35.00
Wheat germ, 5-gal dms gal. 9.00 -13.00
White mineral, tech., 50-65 vis., dms., c.l. gal. .51½- .54¼
l.c.l. gal. .56½- .57¼
65-75 vis., dms gal. .52½- .55¼
l.c.l. gal. .57½- .59¼

Thousands of buyers know that Exchange Oil of Orange meets these qualifications consistently. They know that rigid, day-to-day laboratory control, combined with years of experience as the leader in the citrus products field, guarantees that Exchange Oil of Orange will always meet their most critical specifications.

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SUNKIST GROWERS
PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA
PRODUCING PLANT:
The Exchange Orange Products Co., Ontario, Calif.

Oil, white mineral, NF, 80-90 vis., dms., c.l.	gal.	.53½-	.56½
l.c.l.	gal.	.58½-	.59½
125-135 vis., dms., c.l.	gal.	.59½-	.62½
l.c.l.	gal.	.64½-	.65½
145-155 vis., dms., c.l.	gal.	.66 -	.68½
l.c.l.	gal.	.71 -	.71½
175-185 vis., dms., c.l.	gal.	.69½-	.73
l.c.l.	gal.	.74½-	76
USP, 200-210 vis., dms., c.l.	gal.	.72½-	.75
l.c.l.	gal.	.77½-	.78
345-355 vis., dms., c.l.	gal.	.77 -	.80
l.c.l.	gal.	.83 -	.85
Wintergreen, USP, nat., Northern, cns.	lb.	7.15	-14.50
Southern, cns	lb.	3.86	-19.50
synthetic (see Methyl salicylate).			
Wood (see Oil, tung).			
Wormseed, cns.	lb.	8.00	9.25
Wormwood, cns.	lb.	5.55	6.85
Ylang-ylang, Bourbon, bots.	lb.	18.00	30.00
extra, bots.	lb.	25.00	Nom.
Madagascar bots.	lb	No stocks.	
Oleostearin, bbls.	lb.	.08½-	—
Olivine aggregate, c.l., mines	ton.	7.00	9.50
crushed 8 mesh, bulk, c.l. works	ton.	10.00	—
paper, bgs, c.l., works	ton.	12.00	—
Opium, USP, cns	lb.	19.20	-19.45
gran., USP, cns.	lb.	21.65	-21.90
powd., USP, cns	lb.	21.65	-21.90
Orange, cadmium lithopone, bbls., frt. alld, E. of Rockies	lb.	1.20 -	—
Chrome, CP, bbls., dlvd N of Tenn and N. C. E of Miss. R., include Davenport, Tenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul	lb.	.31 -	—

Chrome orange prices are ½c. higher dlvd Ala., Fla., Ga., La (Shreveport), 1¼c. Miss., N. C., S. C., Tenn. Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c higher dlvd Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dinitroanilin, toner	lb	1.30	—
Mineral, American, bbls., l.c.l., ship't point, frt. alld.	lb.	.2035-	—
Molybdated, bbls	lb.	.44 -	—
Orthonitroanilin, toner, kgs.	lb.	1.15 -	—
Persian, bbls	lb	.65 -	—
Orange flowers, bls	lb.	.55 -	.56
Peel, bitter, Haitian, bls.	lb.	.12 -	.14
sweet, bls	lb.	.14 -	.16
Oregano, Italian, bgs	lb.	.24 -	—
Mexican, bgs., afloat	lb.	.15½	Nom.
Portuguese, bgs., afloat	lb.	.19 -	—
Orris root, Florentine, bls.	lb.	.20 -	.22
powdered, bbls., bxs.	lb.	.25 -	.26
Verona, bls	lb.	.14 -	.15
powdered, bbls., bxs.	lb.	.19 -	.24
Orthoaminobiphenyl, dms., c.l., works	lb.	.32½-	—
l.c.l., same basis	lb.	.33 -	—
tanks, same basis	lb.	.37 -	—
Orthoanisidin, bbls	lb.	.68 -	—
Orthochloroanilin, dms., c.l.	lb.	.65 -	.70
l.c.l.	lb.	.67 -	.72
Orthochlorobenzaldehyde, dms., works	lb.	1.18 -	—
Orthochloroparanitroanilin, dms., dlvd	lb.	.86 -	—
Orthochlorophenol, dms., c.l., frt. equald	lb.	.34½-	—
l.c.l., same basis	lb.	.35½-	—
Orthocresol, pure, 30° C, non-ret., dms., c.l. frt. equald	lb.	.198 -	—
l.c.l., same basis	lb.	.201 -	—
ret. dms., c.l., same basis	lb.	.195 -	—
l.c.l., same basis	lb.	.20 -	—
29° C. non-ret. dms., c.l., same basis	lb.	.188 -	—
l.c.l., same basis	lb.	.191 -	—
ret. dms., c.l., same basis	lb.	.185 -	—
l.c.l., same basis	lb.	.19 -	—
24-29° C. non-ret. dms., c.l., same basis	lb.	.153 -	—
l.c.l., same basis	lb.	.156 -	—
tanks, same basis	lb.	.140 -	—
Orthodichlorobenzene, dms., c.l., works, frt. alld. E. of Rockies	lb.	.11¼-	.13¼
l.c.l., same basis	lb.	.12¼-	.14¼
tanks, same basis	lb.	.09¾-	.11¾
Orthoisopropyl N phenylcarbamate (see IPC).			
Orthonitroanilin, dms	lb.	.50	.56
Orthonitrochlorobenzene, dms	lb.	.20	.21
Orthonitrobiphenyl, tech. dms., c.l., works	lb.	.14½-	—
l.c.l., works	lb.	.15 -	—
tanks, works	lb.	.13 -	—
Orthonitroparachlorophenol, cns	lb.	.75 -	—
Orthonitrophenol, bbls, works	lb.	.94 -	—
Orthonitrotoluene, dms., c.l., frt. alld.	lb.	.10 -	—
l.c.l., frt. alld	lb.	.11 -	—
tanks, frt. alld	lb.	.09 -	—
Orthophenetidin, dms., works	lb.	1.00 -	—
Orthophenylphenol, fib, dms., works.	lb.	.20 -	.44
Ortho-tertiary-amylphenol, dms., c.l., works	lb.	.43¾-	—
l.c.l., works	lb.	.46¾-	—
tanks, works	lb.	.41¾-	—
Orthotoluidin, dms., c.l., works	lb.	.23 -	—
l.c.l., same basis	lb.	.24 -	—
tanks, same basis	lb.	.22 -	—
Osage orange, crystals, No. 1, bbls., l.c.l	lb.	.40 -	—
extract, liquid, No. 1, bbls., l.c.l	lb.	.19 -	—
Orthotolidin (see Tolidine Base)			
Ouabaine, USP, bots	gram	3.00	4.00
Ox bile, extract, powdered, USP, 5-lb. lots or more	lb.	6.00 -	—
not extract, powdered, 5-lb. lots or more	lb.	4.35 -	—
Oxyquinolin sulphate, cns., 100-lb. lots, works	lb	4.75	5.00
smaller lots, works	lb.	4.92 -	5.17

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Pancreas substance, assay 1:75 bots., 5-lb. lots or more	lb.	5.75 -	—
Pancreatin, USP, bots	lb.	2.50 -	3.00
Panthenol, bots., works, frt. adjust.	kilo.	90.00	—
Papain, powd., African, dms	lb.	7.00 -	7.25
Ceylon, dms	lb.	5.75 -	6.00
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots	oz.	5.00 -	—
smaller lots	oz.	5.05 -	5.20
Sulphate, cns	oz.	7.10 -	7.35
Para-anisidin, dms., works	lb.	.88 -	—
Paprika, Algerian, bgs.	lb.	.27 -	.28
Czech, bgs.	lb.	.34 -	.35
Moroccan, bgs.	lb.	.24 -	.25
Spanish, bgs.	lb.	.43 -	.47
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted	lb.	17.50	-21.00
Para-aminophenol, dms., frt. alld	lb.	.97 -	.98
Parachloroanilin, dms., frt. alld., E. of Miss	lb.	.75 -	—
Parachlorobenzaldehyde, dms. works.	lb.	1.34 -	1.37
Parachloro-orthonitroanilin, dms., frt. alld	lb.	.73 -	.82
Parachlorophenol, dms., c.l., frt. equald	lb.	.34½-	—
l.c.l., same basis	lb.	.35½-	—
Paracresol, 98%, dms., c.l., dlvd	lb.	.49 -	—
l.c.l., dlvd.	lb.	.51 -	—
Methylether, cns	lb	2.15	2.50
Paracymene, dms., 50-gal. lots or more, works	gal.	2.50 -	—
smaller lots	gal.	3.00 -	—
Paradibromobenzene, bgs., 500-lb. lots.	lb.	.33 -	—
Paradichlorobenzene, dms., c.l., works	lb.	.14½-	—
l.c.l., same basis	lb.	.17 -	—
Paraffin, crude, scale, white, 121°-123°F, ASTM, solid, c.l., ref'y	lb.	.055 -	—
fully refined, 122-124 ASTM, loose, c.l., rfy	lb.	.0745-	—
125°-127°F, ASTM, loose, c.l., ref'y	lb.	.0745-	—
130°-132°F, ASTM, loose, c.l., ref'y	lb.	.0755-	—
132°-134°F, ASTM, loose, c.l., ref'y	lb.	.0755-	—
135°-137°F, ASTM, loose, c.l., ref'y	lb.	.0755-	—

Prices for paraffin in bags and ctns., c.l., 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.

Paraformaldehyde, tech., 91%, powd., bgs., c.l., frt. alld.	lb.	.15½-	—
l.c.l., frt. alld	lb.	.17 -	—
flake, bgs., c.l., frt. alld.	lb.	.12 -	—
l.c.l., frt. alld	lb.	.13½-	—
USP X, fib, dms., c.l.	lb.	.198 -	—
10,000-lb. lots	lb.	.198 -	—
1,000-lb. lots	lb.	.198 -	—
smaller lots	lb.	.208 -	—
Paraldehyde, tech., 98%, 55-gal. dms., c.l., works	lb.	.1385-	.1650
l.c.l., works	lb.	.1485-	.1750
tanks, works	lb.	.1200-	.1500
Paranitroanilin, dms., c.l., works, frt. alld.	lb.	.48½-	—
l.c.l., works, frt. alld	lb.	.51½-	—
Paranitrochlorobenzene, kgs., works.	lb.	.21 -	.22
Paranitrophenol, kgs., works, frt. equald	lb.	.46 -	—
Paranitrotoluene, kgs., frt. alld	lb.	.36 -	—
Paraphenetidin, dms., works	lb.	.90 -	—
Paraphenylenediamine, redistilled, dms., works	lb.	2.00 -	—
tech., refd., dms., same basis	lb.	1.10 -	1.35
Paraphenylphenol, bgs., c.l., works.	lb.	.27½-	—
l.c.l., same basis	lb.	.42 -	—
Para-tertiary-butylphenol, bgs., c.l., works	lb.	.27½-	—
l.c.l., same basis	lb.	.28½-	—
Parathion, spray powder, 15%, dealers, tins	lb.	.53 -	.59
tech., dms., works	lb.	1.50 -	—
Para-tertiary-amylphenol, ctns., c.l., works	lb.	.26 -	—
l.c.l., works	lb.	.27 -	—
tanks, works	lb.	.25 -	—
Paratoluenesulphonamide, flake, bbls., frt. alld	lb.	.64 -	.66
powd., bbls., works	lb.	.70 -	—
solid, bbls., frt. alld	lb.	.61 -	—
Paratoluidin, flake, bbls., frt. alld.	lb.	.64 -	.68
solid, bbls., frt. alld	lb.	.61 -	—
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over	lb.	.35 -	.36
l.c.l., same basis	lb.	.39 -	.67
Passion flower herb, bls	lb	.25	.26
Peanut meal, 45%, sacked, mills.	ton.	90.00	-92.00
Pectin, citrous, NF, powd., bbls	lb.	2.05 -	2.06
tech., powd., bbls	lb.	1.50	—
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units		.09 -	.10
Procaine, bulk, 1,000,000 units		.10 -	.11
Sodium, sterile, bulk, 1,000,000 units		.09 -	.10
Pennyroyal herb, bls	lb.	.45	.50

Oil, White Mineral, NF—Peru Balsam

Pentachlorophenol, dms., c.l., works, frt. equald	lb	21	—
l.c.l., same basis	lb	24	29
truckload, 20,000 lbs. min same basis	lb	21¼-	—
Pentaerythritol, tech., bgs., c.l., works	lb	.33	—
l.c.l., works	lb	34	.36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol)			
Pentane, industrial, tanks, group 3.	gal	12	.13⅛
Pepper, black, Malabar, spot, bgs.	lb.	1.38 -	1.39
red, Carolina, long, bgs	lb.	.44 -	.45
Gondar, bgs., afloat	lb.	.25 -	—
Japanese hontakas, bgs., afloat	lb.	.50 -	.51
birdseyes, bgs., afloat	lb.	.62 -	—
Louisiana longs, bgs	lb.	.41	Nom.
Mississippi sports, bgs., source, new crop	lb.	.45	Nom.
Mombasa, bgs., Nov.-Dec. ship't.	lb.	.43 -	—
Nigerian, bgs.	lb.	.36 -	.40
Turkish, bgs., shipm't	lb.	.35 -	.35⅛
Unganda, ogs	lb.	.36½-	—
Zanzibar, bgs., afloat	lb.	.43 -	—
white, bgs	lb.	1.48 -	—
Peppermint leaves, USP, bls., dms	lb.	.65	.66
imported, bls.	lb	1.05	Nom.
Pepsin, NF, 1:3,000, bulk	lb.	3.75	3.90
Perchloroethylene, dms., c.l., or truckloads, works	lb	.11	—
dlvd. E	lb	.12	—
l.c.l., works	lb.	11¾-	—
dlvd. E	lb	12½-	—
tanks, works	lb	10½	—
Peru balsam, dms.	lb.	1.35 -	2.00

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NIALK CAUSTIC SODA NIALK TRICHLORethylene
NIAGATHAL® (TETRACHLORO PHTHALIC ANHYDRIDE)

Petrolatum—Phosphorous Trichloride

Petrolatum, amber, dms., c.l., refy. lb. .04¾- .05⅝
l.c.l., dlvd. lb. .06½- —
tanks, refy lb. .03½- .04⅛
cream, dms., c.l., refy lb. .06 - .07⅛
l.c.l., dlvd. lb. .08¼- —
tanks, refy lb. .04¾- .05⅝
extra, amber, dms., c.l., refy lb. .05 - .05⅞
l.c.l., dlvd. lb. .06¾- —
tanks, refy lb. .03¾- .04⅝
USP, white, lily, dms., c.l., refy. lb. .06⅜- .07½
l.c.l., dlvd lb. .08⅝- —
tanks, refy lb. .05½- .06
soft, dms., c.l., refy lb. .06⅝- .07¾
l.c.l., dlvd. lb. .08¼- —
tanks, ref'y lb. .05⅜- —
snow, dms., c.l., refy lb. .06⅞- .08
l.c.l., dlvd. lb. .09⅛- —
tanks, refy lb. .05⅝- .06½
yellow, soft, dms., c.l., refy lb. .05 - .05⅞
l.c.l., dlvd. lb. .06⅝- —
tanks, ref'y lb. .05⅜- —

Petroleum, crude, bulk, at wells, California bbl. 1.10 2.99
Illinois bbl. 2.44 2.87
Kentucky bbl. 2.42 2.83
Louisiana-Arkansas bbl. 2.08 2.90
Montana bbl. 1.25 2.775
Oklahoma-Kansas bbl. 2.16 - 2.65
Pennsylvania lower field bbl. 3.62 —
Upper field bbl. 4.25 —
Texas, East bbl. 2.65 - —
Gulf coast bbl. 2.38 2.95
North, North-Central bbl. 2.23 2.65
Panhandle bbl. 2.23 2.65
West bbl. 2.33 2.65
Wyoming bbl. 1.28 2.875

Petroleum, fuel oil, bunker C, No. 6, California, heavy, tanks, refinery bbl. 1.95 - 2.15
light, tanks, refinery bbl. 2.15 - 2.25
eastern, tanks, Albany, N. Y. bbls. 2.45 - —
Baltimore, Md. bbl. 2.10 - —
Boston, Mass. bbl. 2.15 - —
Charleston, S. C. bbl. 2.00 - —
Jacksonville, Fla bbl. 1.97 - —
New York Harbor bbl. 2.10 - —
Norfolk, Va. bbl. 2.05 - —
Philadelphia, Pa. bbl. 2.10 - —
Portland, Me. bbl. 2.15 - —
Providence, R. I. bbl. 2.12 - —
Savannah, Ga. bbl. 2.00 - —
Diesel, tanks, refinery, California gal. .0825- .115
Pennsylvania gal. .0925- .1025
Furnace, tanks, refinery, Arkansas, No. 2 gal. .06375- —
No. 3 gal. .08 - —
N. Y. Harbor, No. 2 gal. .0975- —
group 3, No. 1 gal. .08125- .0875
No. 1, straw gal. .09 - .09375
No. 2, straw gal. .07625- .08125
range gal. .0875- —
Pennsylvania, western, No. 1 ga. .1075- .1135
No. 2 gal. .105 - .112
No. 3 gal. .105 - .112
Lacquer diluent, California, 170-225 F., b.r., tanks, ex tax, f.o.b. Los Angeles gal. .167 .207
East coast, tanks, N. J. and N. Y. refinery gal. .18 - —
group 3, benzol-type, tanks, refinery gal. .13125- .13625
toluol-type, tanks, refinery gal. .12125- .12375

Petroleum mineral spirits, regular, California, tanks, ex tax, f.o.b. San Francisco gal. .147 - .157
East coast, tanks, N.J., N.Y. gal. .16 - —
Group 3, tanks gal. .10675- —
tankwagon, Baltimore gal. .175 - —
Boston gal. .18 - —
Buffalo gal. .185 - —
Newark gal. .17 - —
New York gal. .165 - .17
Philadelphia gal. .165 - —
Pittsburgh gal. .19 - —
Providence gal. .185 - —
Rochester gal. .20 - —
Syracuse gal. .21 - —
Washington, D. C. gal. .195 - —
specially refined, tanks, f.o.b. Watson, Calif gal. .226 - —
f.o.b. Bordertown, Tex., gal. .24 - —
f.o.b. Houston, Texas, gal. .24 - —
f.o.b. Wood River, Ill. gal. .2625 - —
tank transport, f.o.b. Carteret, N. J gal. .336 - —
tankwagon, N. Y. and N. J. gal. .37 - —
Naphtha, cleaners, East Coast, tanks, N. J and N. Y. refinery gal. .16 - —
Group 3 tanks gal. .11875- —
tankwagon, Newark gal. .17 - —
New York gal. .17 - —
Philadelphia gal. .165 - —
high flash, 140°, group 3, refinery, tanks gal. .134 - .1425
high-solvency, 200-235 b.r. 37-38° C., mixed anilin pt., tanks, refinery or East Coast gal. .23½- —
25-26° C., m.a.p., tanks, same basis gal. .24 .30⅛

Petroleum naphtha, high-solvency, 270-370 b.r., 78-81° C., m.a.p., tanks, same basis, gal. .29 - —
49°C, m.a.p., tanks, same basis gal. .32 - —
26-27° C., m.a.p., tanks, same basis gal. .24 - .33
300-400 b.r., 28°-32° C., m.a.p., tanks, same basis gal. .24 - .30⅛
340-410 b.r., 36° C., m.a.p., tanks, same basis gal. .24 - —
32° C., m.a.p., tanks, same basis gal. .24 - .30⅛
27° C., m.a.p., tanks, same basis gal. .34½- —
350-425 b.r., 32° C., m.a.p., tanks, same basis gal. .30⅛- .51⅛
V.M.&P., tanks, ref'y, California, 245-360 b.r., Los Angeles, gal. .152 - —
Portland, Ore. gal. .158 - —
San Francisco gal. .157 - —
Seattle, Wash gal. .158 - —
East coast, N. J., N. Y., tanks gal. .17 - —
Group 3, tanks gal. .11875- —
tankwagon, Boston gal. .195 - —
Newark gal. .185 - —
New York gal. .185 - —
Philadelphia gal. .180 - —
Pittsburgh gal. .20 - —
Solvent, rubber, California, tanks, ex tax, San Francisco gal. .157 - —
East coast, N. J., N. Y gal. .17 - —
Group 3, tanks gal. .11875- —
Stoddard, California, tankwagon, ex-tax, Los Angeles gal. .157 - .197
East coast, N. J., N. Y., tanks gal. .16 - —
Group 3, tanks gal. .11375- —
Pennsylvania, western, tanks, gal. .17 - —
tankwagon, Boston gal. .18 - —
Newark gal. .17 - —
New York gal. .17 - —
Philadelphia gal. .165 - .17
Pittsburgh gal. .19 - —
Syracuse gal. .21 - —
Sulphonate, oil soluble, 70%, sulphonic content, non-ret, dms., c.l., works lb. .2040- —
l.c.l., works lb. .2065- —
tanks, works lb. .1850- —
60-62% sulphonic content, non-ret, dms., works lb. .175 - .20
l.c.l., works lb. .185 - .202
tanks, works lb. .145 - .185
50-55% sulphonic content, non-ret, dms., works lb. .155 - —
l.c.l., works lb. .165 - —
tanks, works lb. .125 - —
Phenobarbital, USP, dms., 100 lbs lb. 4.50 - 4.70
Phenobarbital-sodium, USP, dms lb. 4.50 - 4.70
Phenol, 90-92% (cresol, 8-10%), dms., c.l., frt. alld E of Rockies. lb. .18¾- .19
l.c.l., same basis lb. .19½- .19¾
tanks, same basis lb. .17 - .17¼
82-84% (cresol 16-18%), dms., c.l., same basis lb. .18¼- .19
l.c.l., same basis lb. .19 - .19¾
tanks, same basis lb. .16½- .17¼
39° or above, tar distilled, dms., c.l., same basis lb. .19¼- .20
l.c.l., same basis lb. .20 - .21¾
tanks, same basis lb. .17½- .19¼
USP, synthetic, dms., c.l., same basis lb. .19¾- —
l.c.l., same basis lb. .20½- —
tanks, same basis lb. .18 - —
Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazin, NF, fib. dms., c.l., frt. adjusted lb. .50 - —
over 2,100 lbs., same basis lb. .52 - —
less than 2,100 lbs., same basis. lb. .54 - —
Phenyl acetate, dms., 100 lb. lots, works lb. .50 - —
Salicylate (see Salol)
Phenylacetaldehyde solution, 50%, bots lb. 2.40 - 2.70
100%, bots lb. 4.00 - 4.65
Phenylacetamide 125-lb. dms., works, lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
Phenylalamine dextro-laevo, dms., works lb. 27.00 - 37.50
Phenylcarbethoxy pyrazolone, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
less than 250-lb. dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., frt. alld lb. .40 - —
l.c.l., frt. alld lb. .36 - .41
Phenylethanolamine, dms., c.l., works lb. .69½- —
l.c.l., same basis lb. .70 - —
Phenylethyl acetate, dms. lb. 1.20 - 1.57
Phenylethylphenyl acetate, bots lb. 4.05 - 4.50
Phenylhydrazin base, CP, bots lb. 3.00 - 3.07
Hydrochloride, commercial, kgs., works lb. 1.75 - —
purified, bots., works lb. 5.12 - —
Phenylmethylpyrazolone, (see Metamphenylpyrazolone)
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., fib. dms lb. 17.00 - 17.25
tech., fib., dms works lb. 10.45 - —
Phosgene, 150-lb cyls., works lb. .27½- —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports ton. 45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis long ton. 4.35 - 4.40
72%-70%, b.p.l., c.l., same basis long ton. 5.00 - —
75%-74% b.p.l., c.l., same basis long ton. 6.00 - —
77%-78%, b.p.l., c.l., same basis long ton. 7.00 - —
Finely ground, 65%, b.p.l., basis 30% P_2O_5 minimum, bulk, c.l., mines short ton. 4.92 - —
68% b.p.l., basis 31% P_2O_5 minimum mines short ton. 5.28 - —
70% b.p.l., basis 32% P_2O_5 minimum, mines short ton. 5.83 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c. per long ton higher.
Tennessee, brown, run-of-mine, unground, 27-28% P_2O_5, c.l., mines long ton. 6.45 - —
30-29% P_2O_5, c.l., mines long ton. 7.21 - —
Phosphorus, red, amorphous cs., lb. .46 - .47
dms. lb. .44 - .45
yellow, cns. lb. .30 - .37
dms., c.l. lb. .26 - —
Oxychloride, dms., c.l., works lb. .13 - .14
l.c.l., dms., works lb. .15 - .18
tankcars, works 100 lbs. .11½- —
Pentasulphide, solid, dms., c.l., works lb. .11½- —
l.c.l., dms., works lb. .13 - .13⅛
Pentoxide, dms., c.l., works lb. .12 - —
l.c.l., works lb. .13 - .14
Sesquisulphide, tins, cs., works lb. .28 - .29
dms., export lb. .33½- .36
Trichloride, dms., c.l., works lb. .13 - .14
l.c.l., works lb. .15 - .18
tankcars, works lb. .11½- —

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Phthalic anhydride, bgs., c.l., works, frt. equald ..... lb. .22 - —
l.c.l., same basis ..... lb. .23 - —
tanks same basis ..... lb. .21½- —
Phthalic anhydride in bags., ½c. per pound higher.
Phthalimide, 97%-98%, dms. works, frt. alld lb. .65 - —
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Pichi leaves, bgs ..... lb. .16 - .17
Picoline (See Alpha, Beta and Gamma Picoline)
Pilocarpine hydrochloride, NF, bots ..oz. 5.25 - —
Nitrate, USP, bots., vials ..... oz. 5.10 - —
Pimento, Guatemala, bgs ..... lb. .20 .20½
Jamaica, bgs. ..... lb. .28¼- .28½
Mexican, bgs ..... lb. .15½- .16
Pinetar, retort, dms., incl. c.l., works lb. .0511 -
t.c.l. same basis ..... lb. .0568 -
whse ..... lb. .0678 -
Pinkroot, bls ..... lb. 2.50 - 2.55
Piperazine hexahydrate, French Codex bots kilo. 8.00 - 8.50
Piperidine, 95% dms frt equald lb 1.65 1.93
98% dms., same basis lb 1.75 2.60
Piperonyl butoxide, dms., dlvd. E lb 5.00 5.35
Cyclonene, dms., dlvd. E lb 4.20 4.50
Pipsissawa herb (see Prince's pine).
Pitch, burgundy, domestic dms., mc. c.l., l.c.l. works 100 lbs 9.80 -10.25
Coaltar, 140°-150° F., m.p., bbls. c.l. works ton 38 00 -39 00
t.c.l., works ton 41 00 —
Cottonseed, dms., works ..... lb. .02¼- .03
Hardwood, paper bgs., c.l., works. lb. .02 - —
Linseed, dms ..... lb. .06 Nom.
Petroleum (see Asphalt, petroleum).
Pine, dms., inc., t.c.l., works, South ..100 lbs. 7.50 - —
Soybean, dms., works ..... lb. .05 Nom.
Tall, dms., works ..... lb. .03¾- .04½
Plaster of Paris (see Gypsum).
Platinum metal, works ..... oz. 90.00 -93.00
Pleurisy root bls ..... lb 45 .50
Podophyllum resin, NF, dms ..... lb. 11.00 -11.20
Pokeroot, bls ..... lb. .22 .23
Polyoxyethylene sorbitan monostearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .45 - —
lb. .45 - —
smaller lots, works lb. .48 - .50
Tristearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000-lb. lots, works. smaller lots, works lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .35½- .36
10,000-19,999 lbs., same basis lb. .36 - .36½
5,000-9,999 lbs., same basis. lb. .36½- —
standard, bgs ..... lb. .35½- .36
crystals, heat-resistant, bgs., c.l., lb. .34 - —
t.c.l. ..... lb. .34½- —
standard, bgs., c.l. ..... lb. .32½- —
t.c.l. ..... lb. .33 - —
Polystyrene in non-returnable fiber dms., ½c. per lb. higher.
Pomegranate root, bark, bgs ..... lb. .60 - .65
Poppy flowers, bgs. ..... lb. 1.20 - 1.25
Seed, Dutch, bgs ..... lb. .16½- .16¾
Polish, bgs. ..... lb. .15½- .16
Turkish, bgs. ..... lb. .13¼- .13½
Potash, caustic, low-chloride, flake, 85% basis 90% KOH, dms., c.l., works 100 lbs. 10.00 - —
t.c.l., works ..... 100 lbs. 10.75 - —
liquid, 45%, dms., c.l., works. 100 lbs. 4.625 - —
t.c.l., works ..... 100 lbs. 5.125 - —
tanks, works ..... 100 lbs. 4.30 - —
solid, 90%, dms., c.l., works. 100 lbs. 9.40 - —
t.c.l., works ..... 100 lbs. 10.15 - —
regular, flake, 88-92%, dms., c.l., works 100 lbs. 8.50 - —
t.c.l., works 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
t.c.l. same basis 100 lbs. 4.65 - —
tanks, same basis. 100 lbs. 3.55 - —
solid, 88-92% dms., c.l., works 100 lbs. 7.90 - —
t.c.l., same basis, works. 100 lbs. 8.63 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms ..... lb. .31 - .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd., dms. ..... lb. .24 - —
Bichromate, bgs., c.l., works lb. .14½- —
t.c.l., same basis ..... lb. .14¾- .15½
Potassium bichromate in drums ¾c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb. lots ..... lb. .55 - .57
Bromide, USP, gran., bbls., kgs. lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works 100 lbs. 8.25 - —
t.c.l., same basis 100 lbs. 9.30 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 6.75 - —
t.c.l., works ..... 100 lbs. 7.50 - —
USP, gran., bbls., dms ..... lb. .16½- .18
powd., bbls., dms. ..... lb. .21 - .23
Chlorate, cryst., dms., c.l., works. lb. .09¾- —
t.c.l., works ..... lb. .10 - .11
powd., dms., c.l., works ..... lb. .10¼- —
t.c.l., works ..... lb .10¾- .11¼
export, dms., 1 to 10 tons, works lb. .13 - .13¾
NF, gran., dms ..... lb. .31 - .33
Chloride, USP, cryst., dms ..... lb. .21 - .23
gran., dms ..... lb. .15 - .17
powd., dms ..... lb. .24 - .26
Chromate, tech., bgs ..... lb. .32 - .36
Citrate, USP, gran., dms ..... lb. .37½- .38½
powder, dms ..... lb. .40½- .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
less than 500-lb. lots, works .. lb. .57 - —
Fluoborate, fib. dms., c.l., works. lb. .26 - —
t.c.l., works ..... lb. .27 - —
Fluoride, dms., works ..... lb. .24 - —
Gluconate, dms ..... lb. .75 - .79
Glycerophosphate, 75% solution, cbys. lb. 2.15 - 2.25
Guaiacolsulphonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech (see Potash caustic).
USP, pellets 100 lb. dms. 1 to 100 dms lb. .28½- .33
Hypophosphite, NF, ton lots or less, fib. dms lb. 1.00 - 1.03
Iodide, dms ..... lb. 2.15 - 2.20
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite gran., dms ..... lb. .20 - .21
powd., dms. ..... lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .43 - —
Trona, Cal. ..... unit-ton. .53 - —
50-51% K_2O, paper bgs., Carlsbad, N. M ton. 23.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., rms. lb. .30 - .33

Potassium pentoborate, gran., bgs., c.l., works. ton. 184.00 - —
ton lots, bbls., ex whse ton. 261.00 - —
less ton lots, bbls., ex whse. ton. 266.00 - —
Powdered Potassium pentoborate, $10.25 per ton higher.
Perchlorate, dms., c.l., works lb. .14 - —
l.c.l., works ..... lb. .14½ .15½
Permanganate, tech., dms., works. lb. .22½ .23½
USP dms. works ..... lb. .24¾- .30¼
Persulphate, dms., c.l., works lb. .18 - .19
t.c.l., works ..... lb. .20 - .22
Phosphate tetrabasic, bbls., works. lb. .16½ - .18½
Prussiate, red, bgs ..... lb. .60 - .63
yellow, dms., ton lots ..... lb. .22½ - —
smaller quantities ..... lb .23 - —
kegs ..... lb .28 - —
Silicate, glass, bgs., c.l., works 100 lbs. 14.70 - —
t.c.l. 100 lbs. 15 20 —
solution, clarified, 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.50 - 5.65
t.c.l., 5 dms. or more, works 100 lbs. 6.25 - 6.65
tanks, works 100 lbs. 5.15 - 5.30
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 4.85 - —
t.c.l., dms., works 100 lbs. 5.35 - —
tanks, works 100 lbs. 4.50 - —
32.5° Be, dms., c.l., works. 100 lbs. 4.95 - —
t.c.l. works 100 lbs. 5.45 - —
tanks works 100 lbs. 4.60 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 5.45 - 6.70
t.c.l., 5 dms., works. 100 lbs. 5.95 - 7.85
tanks, works ..... 100 lbs. 5.10 - 6.35

Potassium silicofluoride, bbls., works lb. .09½- .10
Stannate, dms., frt. alld. E. lb. .740 .796
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90% ton. 36.25 - —
NF VII, cryst., dms ..... lb 31 .33
gran., dms. ..... lb 18½- —
powder, dms. ..... lb. .16½- .17
Sulphocyanide, cryst., NF (see Potassium thiocyanate)
Thiocyanate, NF, cryst., dms., 100-lb. lots or less lb. .87 - .94
tech. works lb 77 79
Titanate, ctns. c.l., works lb. 12½ —
5-ton lots, works lb. 12¾- —
1-ton lot or less works lb. .13 - —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO ton. 16.00 - —
Potassium-sodium tartrate (see Rochelle salt)
Potassium-titanium fluoride, fib. dms., works lb .35 .38
Oxalate, bbls., dms ..... lb. .85 - .95
Potassium-zirconium fluoride, fib. dms., c.l., works lb .50 —
t.c.l. works ..... lb 32½ .55
Pregnenolone, bots ..... gm 1.50 —
Acetate bots ..... gm 1.25 —
Prickly ash bark, bls ..... lb. .55 Nom.
Berries, bgs ..... lb 70 75
Prince's pine herb, bls lb. .60 .61
Procaine hydrochloride, USP, dms. frt. alld lb. 3.10 - 3.40
Progesterone, USP, 100 gms. bots gm 1.75 —
Propane, commercial grade tanks, group 3 gal. .04 - —

Propionaldehyde, dms., 5,000 lbs or more, custom contract lb. .60 - —
Propyl acetate, normal, dms., c.l., dlvd lb. .125 - —
t.c.l. dlvd ..... lb. .135 - —
tanks, dlvd ..... lb. .1075- —
Aldehyde (see Propionaldehyde).
Gallate, dms., 2,000 to 100 lb. lots, works lb 3.90 4.40
Parahydroxybenzoate, USP dms lb 2.30 2.40
Propylene dichloride, dms., c.l., dlvd. E lb. .0845- .035
t.c.l. same basis lb. .0950- .1050
tanks same basis lb .07 .08
Oxide, dms., c.l., dlvd. E .... lb. 19½- 20½
t.c.l dlvd E ..... lb. 20½- 21½
tanks, dlvd E ..... lb. 17½ 18½
Propyleneglycol industrial, dms., c.l., dlvd. E lb. 19¼ .21¼
t.c.l. same basis lb 20¼- 22¼
tanks, same basis lb 17½- 18½
USP dms. c.l. dlvd. E ..... lb 20¼ 21½
t.c.l. same basis ..... lb 21¼ 22½
tanks, same basis ..... lb 18½ .19½
Methylether, dms., c.l., dlvd. E lb. .20 - —
t.c.l same basis ..... lb. .21 - —
tanks, same basis ..... lb. .18½- —
Propylthiouracil, bots., 50-kilo lots or more kilo 55.00 —
smaller lots kilo 55 10 .55 30
Psyllium seed, black, bgs ..... lb 27 30
blonde, bgs ..... lb 19 20
husks, bgs ..... lb. .55 - .56
Pulsatilla herb, bls ..... lb. .52 .53
Pumice, com. grd., coarse to fine, 0½, 1, 1½, 2, 3 bgs., ton lots. lb. 03¾ 04½
smaller, lots lb. 03¾ 04½

SAFER, MORE DURABLE TIRES have been achieved by taking advantage of many scientific advances. One of the most important has been the development of resorcinol-formaldehyde resins to give a dependable rubber-to-cord adhesion for the lifetime of the tire. This superior adhesion, a critical factor in the successful use of rayon cord, is even more important with the high strength nylon cord recently adopted for extreme service conditions. Heyden Resorcinol, Technical, is specified by many manufacturers of tires, heavy-duty belting, and other fiber-reinforced rubber products.

PLYWOOD ADHESIVES Manufacturers also specify Heyden Resorcinol, Technical. Cold-setting resins made from it and formaldehyde are easy to use and provide unusual strength and weather-resistance.

OTHER APPLICATIONS for Heyden Resorcinol—either the technical or USP grade—are as an intermediate for the synthesis of dyestuffs, developers, fluorescent compounds, plastics, tanning agents, antioxidants, and pharmaceuticals.

•

HEYDEN RESORCINOL Technical Flakes, is shipped in 250 pound fiber drums. The USP Crystals are shipped in 100, 50 and 25 pound drums. Samples and further information are available on request.

SERVING INDUSTRY THROUGH FINER CHEMICALS

Benzaldehyde • Benzoates • Benzyl Chloride
Bromides • Chlorinated Aromatics
Creosotes • Formaldehyde • Formic Acid
Glycerophosphates • Guaiacols
Hexamethylenetetramine
Medicinal Colloids
Methylene Disalicylic Acid • Mesomycin
Paraformaldehyde • Parahydroxybenzoates
Penicillin • Pentaerythritols
Propyl Gallate • Resorcinol • Salicylates
Salicylic Acid • Streptomycin

FINE HEYDEN CHEMICALS

HEYDEN CHEMICAL CORPORATION
342 Madison Avenue, New York 17, N.Y.
CHICAGO • PHILADELPHIA • SAN FRANCISCO • DETROIT • PROVIDENCE

Pumice, Italian—Salt, Rock

Pumice, Italian, silk-screen, coarse, bags, ton lots lb. .06½ - —
fine, bgs., ton lots lb. 04 - —
sun dried, coarse, bgs ton lots lb. 02½ - .04
fine, bgs., ton lots lb. 02½ - .04
Pumice in bbls is ½c per lb higher
Pumpkin seed bgs lb. .18 - .20
Pyrethrin, synthetic (see Allethrin).
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls works lb. .50 - —
powder 1.3% pyrethrins, bbls., works lb. 71½ - —
liquid (20 to 1) basis 2 grams pyrethrins per 100cc, odorless base, bbls., works gal. 9.75 -10.50
(30 to 1) basis 3 grams pyrethrins per 100 cc odorless base, bbls., works gal. 15 75 - —
oleoresin dewaxed 20% for aero sol bombs, dms., works lb. 11.00 -12.00
Pyridin, denaturing, dms., c.l., works and frt. equald gal. 2.82 - —
l.c.l., same basis gal. 2.85 - —
refd., 2° non-ret, dms., c.l., same basis lb. .89½ - 1.14½
l.c.l., same basis lb. .90 - 1.15
Pyridoxine hydrochloride, 100-gram bots gram .55 —
Pyrites long-ton. No prices.
Pyrocatechol (see Catechol).
Pyrogallol, NF lb. 3.25 3.43
Pyrophyllite, insecticide grade, 200 mesh, bgs., c.l., mines ton 13.00 -13.50
No. 3, 200 mesh, bulk, c.l., mines ton 11.00 - —
rubber grade, 140 mesh, bgs, c.l., mines ton 11.50 -12.00
Pyrophylite, standard, 200 mesh, bulk, c.l., mines ton 12.50 - —
230 mesh, bulk, c.l., mines ton 13.50 - —
325 mesh, bulk, c.l., mines ton 16.75 - —
Standard and No 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.
Pyroxylin, USP, buts lb. 9.59 - —
Scrap, opaque, amber, cs., works lb. .15 - —
black, cs., works lb. .12 - —
mixed mottled, cs., works lb. .11 - —
white, china, ivory, cs., works, lb. .12 - —
dense cs., works lb. .12 - —
translucent, pastels, cs., works, lb. .14 - —
transparent, colorless, cs., works lb. .20 - —
colors, cs., works lb. .14 - —
shavings, opaque, amber, cs., works lb. .12 - —
mixed, colors, cs. works lb. .12 - —

Q

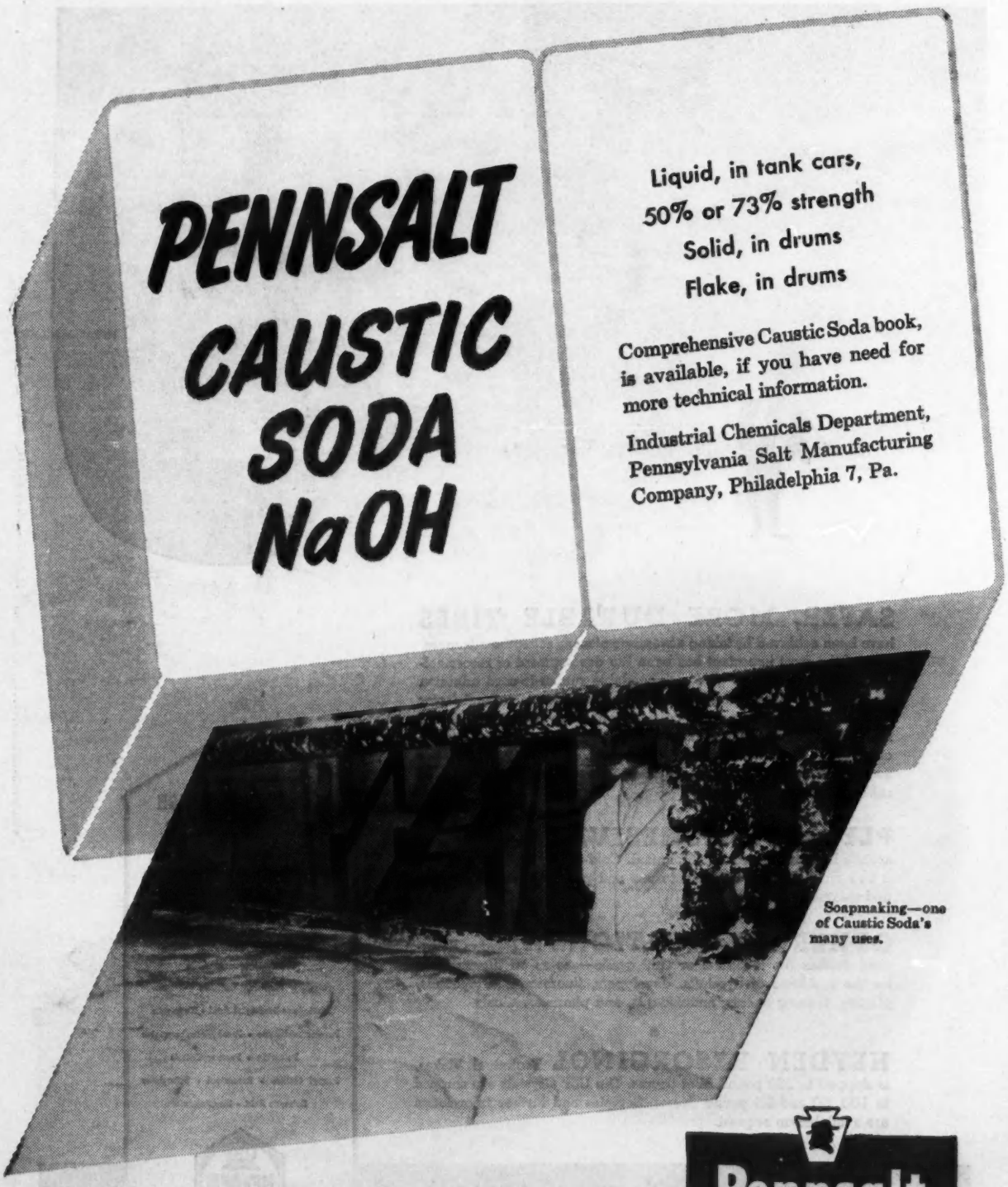
Quebracho extract, clarified, grd., 70% tannin, bgs., c.l., lb. .16½ - .16¾
liquid, 35% tannin, bbls., works, tanks, same basis lb. .08¼ - —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra lb. .12¾ - —
ordinary, 63% tannin, bgs., c.l., same basis lb. .11 31/64 —
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.
Queen of the meadow root, bgs lb. .35 - .36
Quercitron extract, crystals, No. 1, bbls., l.c.l. lb. .40 - —
liquid, No. 1, bbls., l.c.l. lb. .19 - —
Quicksilver, flasks (76 lbs. net) flask 215.00 -217.00
Quince seed, bgs lb. .80 - 1.50
Quinidine, NF, V cryst., cns., 100-oz. lots oz. 1.90 - —
powd., precip., cns., 100-oz. lots oz. 1.85 - —
Sulphate, USP, cns., 100-oz. lots oz. 1.00 - —
Quinine, NF, cns., 100-oz. lots oz. .70 - —
Bisulphate, USP cns., 100-oz. lots oz. .51 - —
Dihydrochloride, USP, cns oz. .70 - .72
Ethylcarbonate, NF, cns., 100-oz. lots oz. .75 - —
Hydrobromide, NF, cns. 50-oz. cns. oz. .63 - —
Hydrochloride, USP, cns., 100-oz. lots oz. .63 - —
Phosphate, NF cns., 100-oz. lots oz. .76 - —
Salicylate, NF cns., 100-oz. lots oz. .66 - —
Sulphate USP, cns. 100-oz. lots oz. .56½ - —
Quinine and Urea hydrochloride, NF, cans oz. .68 - —
Quinolin, ret. dms., c.l., frt. equald. lb. .50¾ - —
l.c.l., same basis lb. .51¾ - —
tanks, same basis lb. .50 - —

R

R salt, paste, basis, 100%, dms., frt. alld lb. .83 - —
powd., basis, 100%, frt. alld lb. .88 - —
Raspberries, dried, bbls lb. 1.20 - 1.25
Red, BON, arylid, deep shades, bbls. lb. 3.60 - —
light, medium shades, bbls. lb. 2.75 - —
maroons, pure, bbls lb. 1.75 - —
resinated, bbls lb. 1.50 - —
Cadmium, CP, dark shade, bbls., frt. alld, E. of Rockies lb. 4.30 - —
light shade, same basis lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium-light shade, bbls, same basis lb. 4.05 - —
orange shade, bbls., same basis lb. NF - —
deep shade, bbls., same basis, lb. 1.76 - —
light shade, bbls., same basis, lb. 1.61 - —
maroon shade, bbls., same basis lb. 1.85 - —
medium shade, bbls., same basis lb. 1.71 - —
medium-light shade, bbls., same basis lb. 1.66 - —
orange-red shade, bbls., same basis lb. 1.57 - —
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c per lb higher ex whse. Los Angeles and San Francisco.
Carmine No. 40 (see Carmine).
Crocus martis (see Red, maroon iron oxide).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y lb. .12½ - —
Iron oxide, pure, 98% ferric oxide, bgs., c.l., works lb. .12¼ - —
l.c.l., works lb. .12½ - —
natural 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis lb. .05¾ - —
Lake C. toner, alizarin, bbls., works lb. 1.10 - 1.20
Lithol, toner, bbls., works lb. 76 - —
rubine, toner, pure, bbls., works lb. 1.50 - —
resinated, bbls., works lb. 1.40 - —
Virginia-type, bbls., works lb. 1.40 - —
Maroon toner, BON, arylid, dlvd. lb. 3.60 - 5.90
Cadmium, deep, bbls., works, lb. 1.20 - —
regular, bbls., works lb. 1.10 - —
MNPT toner, kgs., works lb. 3.60 - —
Maroons in smaller pkgs 5c. per lb. higher.
Mercury oxide, tech., bbls., 10,000 lbs. works lb. 4.22 - —
smaller lots, works lb. 4.24 - —
Metallic, bbls., c.l., works lb. .02½ - —
l.c.l., works lb. .02¾ - —
Oxide (see Red, iron oxide)
Persian gult, bgs., c.l., works lb. .06¾ - —
l.c.l., works lb. .07 - —
Para toner, bbls lb. .85 - —
Chlorinated, kgs lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA., kegs lb. 4.90 - —
tungstated, PTMA, works, kegs, lb. 6.35 - —
Spanish, oxide, bbls., c.l., ex dock lb. .05¾ - —
l.c.l., ex dock lb. .06 - —
ex whse., New York lb. .06½ - —
Toluidin toner, deep shades, kgs., works lb. 1.40 - —
light shades, kgs., works lb. 1.40 - —
Turkey, bbls., works lb. .14½ - —
Tuscan, bbls., frt. equald lb. .24½ .25
Venetian, 15%, bgs., works lb. .0350- .0375
20%, bgs., works lb. .04 —
25%, bgs., works lb. .0450- —
30%, bgs, works lb. .0475- —
35%, bgs., works lb. .05 - —
40%, bgs, works lb. .0525- —
Vermilion, Amer., bbls lb .32 - —
Quicksilver, ctns. lb. 3.90 - —
Watchung-type, bbls. lb 1.95 - —
Red KB base (see Chloro (4)-2-toluidine).
Red precipitate, NF, powd., fib. dms lb. 4.37 - 4.41
Red saunders, NF powd., bbls lb. .35 - —
Rennin, NF, powder lb. 6.25 - —
Resorcinol, tech grade, dms., c.l., works lb. .82½ - —
l.c.l., works lb. .83½ - —
USP, cryst., dms., works lb 2.75 - —
powd., dms., works lb 2.95 - —
Monoacetate, NF, dms. lb. 3.25 - 3.45
Rhatany root, bgs lb. .15 .16
Rhodinol, 5-lb. cans lb. 40.00 -56.00
Rhubarb root, China, whole, cs lb. .85 - .86
powd., bbls lb. .95 - .96
India, whole, bgs lb. .35 - .36
powdered, bbls lb. 40 - .44
Riboflavin USP, bots., dlvd kilo. 100.00 - —
readily soluble, bots., dlvd kilo. 100.00 - —
Rice bran, concentrate, dms., Cedartown, Ga lb. .79 - —
Rochelle salt, USP, gran., powd., dms., c.l. lb. .32½ - —
5,000-lb. lots, dms., c.l lb. .32½ - —
smaller lots lb. .33½ - .38¼
Rose flowers, pale, bls lb. .45 Nom
Rosemary flowers, bls lb. .95 .96
Leaves, French, bls lb. .10½ - .11
Portuguese, bls. lb. .07 - .07¼
Spanish, bls lb. .09 - .09¼
Rosin, gum and wood (see Naval Stores, Protective Coatings market).
Rotenone, CP, bbls., works lb 20.00 - —
tech., bbls, works lb 16.50 - —
Rottenstone (see Tripoli)
Rue herb bls lb .35 .40
Rutin, NF, 25 kilo lots, fib, dms. kilo. 27.50 -40.00
10 to 25-kilo lots, fib, dms kilo. 28.50 -40.00
1 to 10-kilo lots, fib, dms kilo. 30.00 -40.00
Ryania, 100% powd., bgs., works lb. .20 —

S

Sabadilla seed, powd., bbls lb. .70 - —
activated, ground with lime, bbls lb. .41 - .42
Saccharin, USP, gran., soluble, dms., 1000-lb. lots lb 1.60 - —
smaller lots lb 1.70 - 1.80
powd., soluble, insoluble, dms., 1000-lb. lots lb 1.65 - —
smaller lots lb 1.75 - 1.95
Saffower, Egyptian, ols lb. .60 - .65
Saffron, Mexican, bls lb. .95 - .96
Spanish, USP, tins lb. 21.50 -23.50
Safrol dms lb. .72 1.35
Sage, Cretan, bls lb. .12 - .12½
Cyprus, bls lb. .09 - .09½
Dalmatian, bls. lb. .45 - .46
Greek, bls lb. .11½ - .12
Italian, Officinalis, bls lb. .18 - .20
Spanish, stemless, bls lb. .13½ - .14
Syrian, bls lb. .10½ - .11
Turkish, bls lb. .12 - .12½
Sago flour, raw, bgs lb. .07½ - .07¾
refined, bgs lb. .09 - .09¼
Sal soda (see Soda sal).
Salol, NF, gran., bbls., kgs lb. 1.05 - —
fib, dms lb 1.07 - 1.08
Powdered salol, 25c. higher.
Salt, rock, paper bgs., c.l., works, 100 lbs. .63 - —
l.c.l. 100 lbs. 1.09 - —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SODA
NaOH
Liquid, in tank cars,
50% or 73% strength
Solid, in drums
Flake, in drums
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Soapmaking—one of Caustic Soda's many uses.

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Pennsalt Chemicals
Progressive Chemistry for over a Century

Salt, table, vacuum, common, fine, paper bgs. c.l., works 100 lbs. .77 - —
l.c.l., works 100 lbs. 1.12½- —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton.17.00 - —
Saltpeter, cryst., bbls., 10-ton lots, 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90
powd., bbls., 20-ton lots 100 lbs.10.75 —
smaller lots 100 lbs.12.00 -12.50
gran., bbls., 20-ton lots 100 lbs. 9.75 —
smaller lots 100 lbs.11.10 -11.50
NF, gran. dms lb. 09¾ .17¾

Saltpeter in bags, 50c. per 100 lbs. less; in kegs, $1 more

Sandalwood chips, East Indies, bgs., lb. .65 - .66
powd., dms lb. .75 - .76
Sanguinarine nitrate, bots oz. 4.75 5.50
Santonin, NF, dom., dms., cryst., powd., cns lb.110.00 -120.00
imported, cryst., powd., cns lb.112.50 - —
Saponin, No. 1, 100-lb. dm lb 2.75 - —
Sarsaparilla root, dom., bls lb. .45 .50
Honduras, bls lb. .38 .40
Mexican, bls lb. .22 .25
Sassafras bark, ord., bls lb. .44 .45
select, bls lb. .55 .56
Savory French, bls lb. .21 - .21½
Spanish, bls lb. .14 - .16
Saw palmetto berries, bgs lb. .32 .38
Scammony resin, lump, cns lb. 1.95 2.20
powd., cns lb. 2.05 2.30
Schaeffers salt, paste, dms., frt. alld. lb. .77 —
powder bgs., frt. alld lb. .80 —
Scopolamine hydrobromide, bots.oz.14.00 -15.00
Hydrochloride USP, bots oz.8.00 —
Seidlitz mixture, bbls., 5,000 lbs lb 30½ —
smaller lots lb. .31 .32
Selenium, powd., dms., dlvd lb. 3.25 —
Senega root, bls lb. 2.15 - 2.20
Senna leaf, Alex., half-leaf, bls lb. .22 - .23
sifting, bgs. lb. .18 - .19
Tinnevelly, No. 1, bls lb. .20 - .21
No. 2, bls lb. .16 - .19
No. 3, bls lb. .14 - .15
powdered, bls., bxs lb. .17 - .18
Pods, bls. lb. .35 - —
Serpentaria root, bls lb. 5.00 - 5.10
Sesame seed, Nicaragua, hulled, bgs. lb. .21 - .25
natural, bgs lb. .13¾- .14
Turkish, bgs lb. .15 Nom.
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .43 - —
bbls., 1,500-lb. lots lb. .44 - —
kgs., 1,500-lb. lots lb. .46 - —
refined, bgs., 1,500-lb. lots lb. .53 - —
bbls., 1,500-lb. lots lb. .54 - —
kgs., 1,500-lb. lots lb. .56 - —

Bonedry shellac prices for less than 1,500-lb. lots, 1c. per lb. higher for all packages.

Lemon, No. 1, bgs lb. .32 - .34
No. 2, bgs lb. .29 - .32
Superfine, bgs., 10-bg. lots lb. .28 - .30
TN, bgs., 10-bg. lots lb. .25 - .29

Shellac in 1 to 9 bg. lots, 1c. more.

Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill., works ton.25.00 - —
l.c.l., works ton.30.00 -40.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton.20.00 - —
l.c.l., works ton.25.00 -30.00
140 mesh, bgs., c.l., works ton.15.00 - —
l.c.l., works ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works lb. .20 - .28½
Silver bullion, ingots, cs oz. .83¼- —
Cyanide, fib. dms., 2,500-oz. lots oz. .75½- —
1,000-oz. lots oz. .76½- —
500-oz. lots oz. .76¾- —
100-oz. lots oz. .76¾- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .53¾- —
1,000-oz. lots oz. .54½- —
500-oz. lots oz. .55¼- —
250-oz. lots oz. .55½- —

USP granular silver nitrate, 4c. per oz. higher.

Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Simaruba bark, bls lb. .90 Nom.
Skullcap herb, Eastern, bls lb. .50 - .65
Western, bls lb. .30 - .35
Skunk cabbage root, bls lb. .60 - —
Slate flour, bgs., c.l., works ton. 7.55 -13.00
l.c.l., ex whse ton.19.85 -37.35
Sloe berries, bgs lb. .24 - .28
Smalt, black, ctns lb. .15 - —
Blue, ctns lb. .18 - —
Snakeroot, Canada, bls lb. .75 - .80
Soapbark, bls. lb. .28 - .30
crushed, bls., bbls lb. .33 - .34
powd., bbls lb. .35 - .37
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.60 - —
l.c.l., stock points 100 lbs. 2.85 - 4.62
bbls., c.l., works 100 lbs. 2.15 - —
l.c.l., stock points 100 lbs. 3.35 - 4.13
bulk, c.l., works 100 lbs. 1.30 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.50 - —
l.c.l., stock points 100 lbs. 2.75 - 4.52
bbls., c.l., works 100 lbs. 2.05 - —
l.c.l., stock points 100 lbs. 3.25 - 5.02
bulk, c.l., works 100 lbs. 1.20 - —
Soda, caustic, flake, powd., 76%, c.l., works 100 lbs. 3.75 - —
l.c.l. stock points 100 lbs. 4.95 - 6.77
liquid, 50%, sellers' tanks, works, dry basis 100 lbs. 2.53 - —
50%, rayon-type tanks, works, dry basis 100 lbs. 2.65 - —
70% sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76%, dms., c.l., works 100 lbs. 3.35 - —
l.c.l. stock points 100 lbs. 4.55 - 5.05
Sal, bgs., c.l., works 100 lbs. 1.40 - —
l.c.l., works 100 lbs. 1.70 - —
Soda-lime, USP, dms lb. .23 - .25
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
l.c.l., dms lb. .12¾- —
NF, gran, dms., works lb. .16 - .16½
Alginate, refined, bbls., works lb. .83 - —
semi-refined, bbls., works lb. .54 - —
NF, white, powd., dms., ton lots, works lb. 1.30 - —
Antimoniate, bbls., c.l., dlvd. E. lb. .30 - —
l.c.l., dlvd. lb. .31½- —
Arsenate, dms., c.l., works lb. .12½- —
l.c.l., dms., works lb. .13¾- .14¼
Arsenite, dms., c.l., works lb. .13½- —
l.c.l., dms., works lb. .14¼- .15¼
solution, dms., works gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo.21.00 - —
10 kilo lots kilo.21.35 - —
5 kilo lots kilo.21.75 - —
1 kilo lots kilo.22.00 - —
500 gram lots, bots kilo. 22.50 - —
Benzoate, tech., bbls., dms., 100 lbs. or more lb. .37½- .39
USP, bbls., dms., 100 lbs. or more lb. .44½- .46

Sodium bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.50 - —
l.c.l., works 100 lbs. 3.15 - —
powd., bgs., c.l., works 100 lbs. 2.10 - —
l.c.l., works 100 lbs. 2.75 - —
Bichromate, bgs., c.l., works lb. .11 - —
l.c.l., same basis lb. .11¼- .12
Bifluoride, bbls., c.l., works, frt. equald lb. .13¾- —
l.c.l., same basis lb. .14¼- —
Bisulphate, bulk, c.l., works, 100 lbs. 2.00 —
dms., c.l., works 100 lbs. 2.65 3.85
l.c.l., works 100 lbs. 3.05 3.65
Bisulphite, anhyd., bgs., c.l., works, 100 lbs. 4.05 - —
l.c.l., works 100 lbs. 4.30 - —
solut. 33° bbls., c.l., works, 100 lbs 1.40 - —
l.c.l., works 100 lbs 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, jars, dms lb. 8.52 - —
Carbonate, anhydrous (see Soda ash), crystalline, decahydrated (see Soda sal), monohydrated, bgs., c.l., works, 100 lbs. 2.63 - —
l.c.l., works 100-lbs. 3.05 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works, lb. .08¼- —
l.c.l., works lb. .08¾- .09¼
Chloride, tech (see Salt).
USP, dms. lb. .05 .12
Chlorite, tech., dms., works lb. .58 .73
Chloroacetate, tech., dms., c.l., works lb. .24 - —
l.c.l., works lb. .25 - .26
Chromate, dms., c.l., works lb. .12¾- —
l.c.l. same basis lb. .13 - .13¼

Sodium citrate, anhyd., dms lb. .60 - .65
USP VIII, gran., dms lb. .22½ - .29⅛
USP XIV, gran., dms lb. .28 - .34
Sodium citrate USP powd prices ½c. higher.
Sodium, cyanate, dms., 1,000-lb. lots, works lb. .85 1.10
smaller lots, works lb. 1.00 1.25
Cyanide, flake, 96-98% dms., c.l., or 20,000-lb. lots lb. .168 - —
over 1,000 lbs lb. .178 - —
100-lb. to 1,000-lb. lots lb. .188 - —
Granular sodium cyanide 1c. higher.
Diacetate 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., dms lb. .14¾- —
anhydrous, dms., c.l., works lb. .17 - —
l.c.l. lb. .17¾- —
Fluoride, white, 90%, bbls., c.l., works lb. .11 - —
l.c.l., works lb. .1140- —
95%, bbls., c.l., works lb. .1125- —
l.c.l., works lb. .1165- —
Fluoroacetate, monobasic, 8-oz. tins, 50 to a case, works. lb.12.00 - —
2 to 25 tins to case, works lb.12.00 -16.50
1 oz. tins, 16 to 64 to case, works lb.16.50 -21.00
Formate, bgs., c.l., dlvd 100 lbs. 7.10 - —
l.c.l. 100 lbs 8.15 - 8.45
Gentisate, 100-lb. fib. dms lb. 8.50 - —
Gluconate, technical, bgs lb. .35 - —
refined technical, dms lb. .50 - .53
Glutamate, monobasic, dms., c.l lb. 1.67 - 1.69
Glycerophosphate, NF, cryst., bbls. lb. 1.90 - 1.95
powder, bbls lb. 1.85 - 2.00
solution, 75%, cbys lb. 1.06 - 1.21
Hydride, dms., works lb. 2.00 - 3.00
smaller lots, dlvd lb. 1.66 - —

Sodium hydrosulphide (see Sodium sulphydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .24½- —
l.c.l., frt alld lb. .25 - —
Hydroxide, tech. (see Soda caustic).
NF, pellets, 100-lb. dms., 1 to 100 dms lb. .18½- .22
Hypophosphite, NF, dms, ton lots or less lb. .93 .98
Hyposulphite, photo grade, bgs., c.l., works 100 lbs. 4.00 4.25
l.c.l., same basis 100 lbs. 4.65 7.15
pea crystals, bgs 100 lbs 4.50 —
gran., bgs., c.l., works 100 lbs 5.00 —
tech., bgs., c.l., works 100 lbs. 4.00 —
l.c.l., works 100 lbs. 4.40 6.90
Sodium, hyposulphite crystals in bbls. 50c. higher.
NF (see Sodium thiosulphate).
Iodide, USP, bots., dms lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms. cbys., works lb. .26½- —
tech., 50%, dms., cbys., works, lb. .16¼- —
Laurylsulphate, dms., c.l., dlvd. lb. .25 - —
l.c.l., dlvd. lb. .26 - —
tanks, dlvd. lb. .23 - —
Metabisulphite, see sodium bisulphite
Metaborate, octahydrate, gran., bgs., c.l., works ton.78.50 - —
l.c.l., ex. whse ton.124.50 -129.50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.
tetrahydrate, c.l., bbls., works, ton.199.50 - —

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AMMONIUM CHLORIDE
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POTASSIUM CARBONATE
CAUSTIC POTASH
SODIUM NITRITE U.S.P.
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For a sales service that is handled by a staff of thoroughly trained, helpful salesmen operating from thirteen convenient branch sales offices . . . plus a nation-wide organization of selected jobbers, distributors and dealers.
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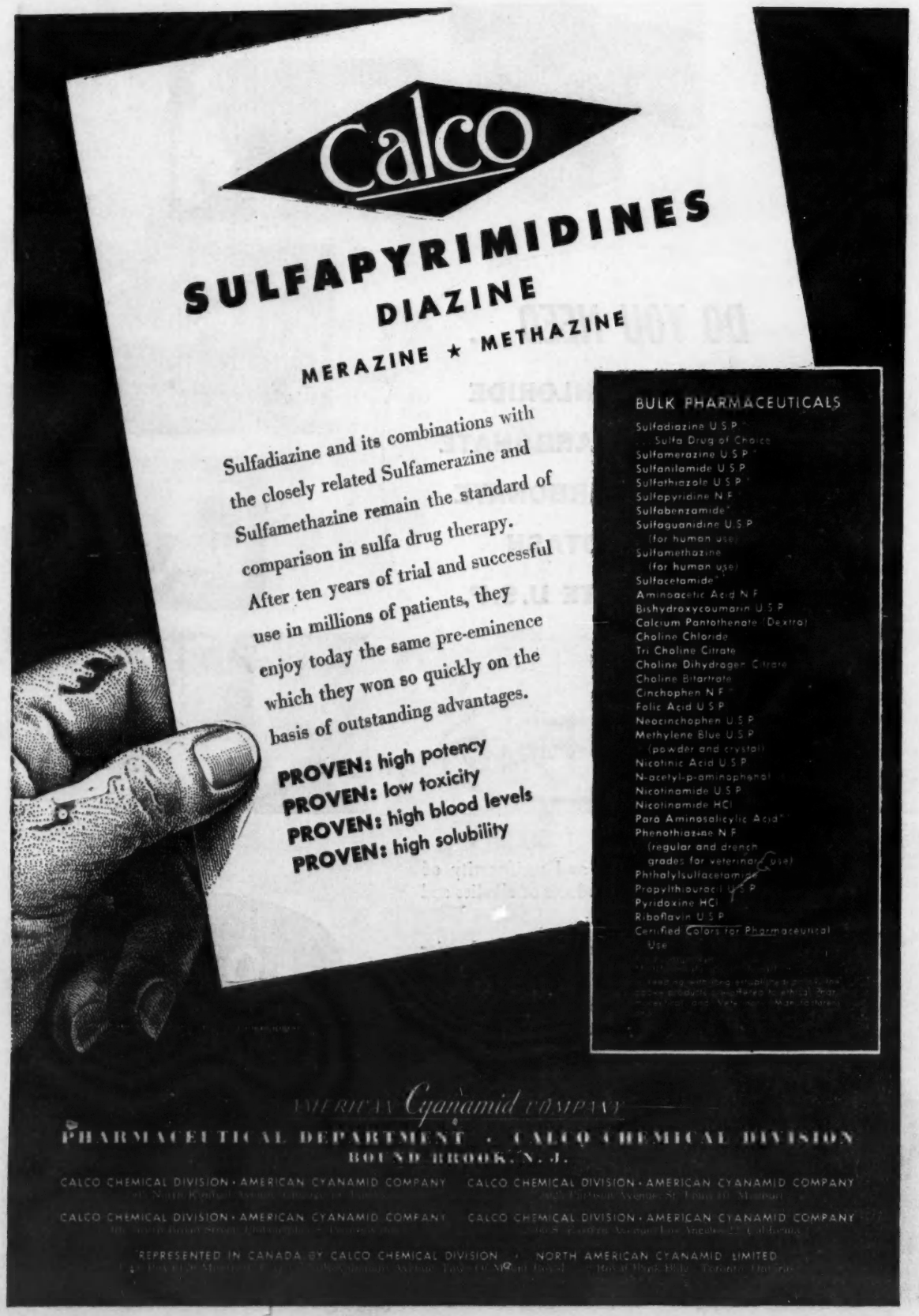
Ammonium Bicarbonate
Caustic Potash
Potassium Carbonate
Sodium Nitrite
Calcium Chloride
Sodium Bicarbonate
Para-dichlorobenzene
Ortho-dichlorobenzene
Monochlorobenzene
Specialty Cleansers

Sodium Metal—Starch, Corn

Sodium metal, tanks, works ..... lb. .16 - —
bricks dms works ..... lb. .17 - .19
Metanilate, bbls., frt. alld ..... lb. .82 - —
Metasilicate, anhyd., bgs., c.l., works .. 100 lbs. 4.70 - —
l.c.l., works ..... 100 lbs. 4.95 - 5.45
dms., c.l. ..... 100 lbs. 5.05 - —
l.c.l. ..... 100 lbs. 5.30 - 5.55
Pentahydrate, bgs., c.l., works, 100 lbs. 3.80 - —
l.c.l., bgs., works .... 100 lbs. 4.15 - 4.55
dms., c.l., works ..... 100 lbs. 4.20 - —
l.c.l., works ..... 100 lbs. 4.55 - 4.95
Molybdate, crystals, bbls., works lb. .75 - .85
powd., anhy dms. works lb. 1.05 - 1.09
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls ..... lb. .70 - —
Nitrate crude, bgs., c.l., works, ton.51.00 - —
bulk, c.l., works ..... ton.47.50 - —
imp., 100-lb. bgs., c.l., Atl., Gulf, Pac. whse ton.57.00 - —
bulk c.l. same basis ton.53.50 - —
Nitrite, bbls., c.l., works, frt. equald lb. .07¼- —
l.c.l., same basis ..... lb. .08¾- —
USP, gran., dms ..... lb. .17 - —
Orthosilicate, anhyd., dms., c.l., works .. 100 lbs. 5.85 - —
l.c.l., works ..... 100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works, 100 lbs 4.75 - —
l.c.l., works .... 100 lbs 5.50 - —
Oxalate neut., bgs., works lb. .104 - —
Para-aminobenzoate, dms., 1,000-lb. lots or more lb. 3.00 - —
smaller lots ..... lb. 3.05 - 3.40
Sodium para-aminosalicylate, dms., 1,000-lb. lots, frt. adjusted, lb. 4.00 - —
smaller lots, same basis .... lb. 4.05 - 4.50
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald. lb. .25½- —
l.c.l., same basis ..... lb. .26½- .28½
pellets, bgs., c.l., same basis lb. .25 - —
l.c.l., same basis ..... lb. .26 - 28
Pentachlorophenate, powd., bgs., c.l., same basis .. lb. .24 - —
l.c.l., same basis ..... lb. .25 - 27
Pentachloropnenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices.
Perborate, USP, tech., bbls., c.l., works. lb. .193 - —
l.c.l., works ..... lb. .198 - —
Peroxide, dms., c.l. dlvd. E. of Miss lb. .1960- —
l.c.l., same basis ..... lb. .1910- .2010
Phenolsulphonate, USP IX., gran., dms lb. .44 - .45
powd., dms ..... lb. .47 - .48
Phosphate, diabasic, anhyd., bgs., c.l., works 100 lbs. 7.25 - —
l.c.l., works ..... 100 lbs. 7.65 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., works, 100 lbs. 6.65 - —
l.c.l., works ..... 100 lbs. 7.05 - —
monobasic, anhyd., bgs., c.l., works 100 lbs. 8.05 - 8.50
l.c.l., works ..... 100 lbs 8.45 - 8.70
Sodium phosphate, tribasic, cryst., bgs., c.l., frt. equald ... 100 lbs. 4.05 - 5.30
l.c.l., same basis 100 lbs. 4.45 - 8.20
Sodium phosphates in bbls. 40c. higher than bgs.
Prussiate, yellow, bgs., 10-ton lots, lb. .13½- —
smaller lots ..... lb. .14 - —
Pyrophosphate, acid, bgs., c.l., works, frt. equald .100 lbs. 10.00 -10.75
ferric, dms., 1,500-lb. lots, works lb. .30 - —
smaller lots, works lb. .31 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald 100 lbs. 7.50 - —
l.c.l., frt equald 100 lbs. 7.90 - —
Salicylate, USP, dms ..... lb. .63 - —
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1 .... 100 lbs. 3.85 - 4.10
zone 2 ..... 100 lbs. 4.10 - 4.35
zone 3 ..... 100 lbs. 4.40 - 4.65
zone 4 ..... 100 lbs. 5.10 - 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala. La and Miss. No. of 31°; (3) Ark. W of 98° Kan. Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
bbls., c.l., works ..... 100 lbs. 2.45 - —
Sodium sesquisilacate, anhy., dms., c.l., works ..... 100 lbs. 5.50 - —
l.c.l., works ..... 100 lbs. 7.00 - —
hydrated bgs., c.l., works 100 lbs. 4.25 - —
l.c.l., bgs., works 100 lbs. 4.60 - 5.00
Silicate, liquid, 40° 1:3.2, turbid., dms., c.l., works 100 lbs. 1.25 - —
l.c.l., works .100 lbs. 1.60 - 2.00
tanks, works ..... 100 lbs. .90 - .95
47°, turbid., 1:2.9, dms., c.l., works 100 lbs. 1.80 -1.90
l.c.l., dms., works 100 lbs. 2.15 - 2.55
tanks, works ... 100 lbs. 1.45 - 1.55
52°, turbid., 1:2.4, dms., c.l., works .. lb. 2.10 - —
l.c.l., works ..... 100 lbs. 2.45 - 2.85
tanks, works ..... 100 lbs. 1.75 - —
solid, 1:3.2, bgs., works ..... ton.52.50 -55.00
Silicofluoride, bgs., c.l., works .. lb. .070 - —
l.c.l., works lb. .075 - .075
Stannate, dms., works, frt. alld. E .. lb. .660 - .716
Stearate tech. dms. works .. lb. .43 - .44
USP, dms., works ..... lb. .70 - .75
Sulphanilate, bbls., works ..... lb. .22 - —
Sulphate, NF, VII, dried, powd., dms. lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. allowance to $10. 100 lbs. 2.25 - —
l.c.l., works, same basis. 100 lbs. 2.50 - 3.00
cryst. (see Glauber's salt)
rayon grd. bgs., c.l., works. ton.27.00 - —
l.c.l., works ..... ton.33.00 - —
USP, cryst., fib. dms ..... lb. .17½ - .18
gran., fib. dms ..... lb. .17½- .19
Sulphide, flake bbls., c.l., works, E., frt. equald ... ton.100.00 - —
l.c.l., same basis ... ton.108.00 - —
fused, bbls., c.l., works, E. frt. equald ton.88.50 - —
l.c.l., same basis ... ton.96.50 - —
Sulphite anhyd., bgs., c.l., works. 100 lbs. 2.73 - —
l.c.l., same basis 100 lbs. 3.33 - 3.58
regular, cryst., bgs. c.l., works. 100 lbs. 4.80 - —
l.c.l., same basis 100 lbs. 5.20 - 6.45
powder, bbls., c.l., works 100 lbs 6.75 - —
l.c.l., works ..... 100 lbs. 7.25 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls ..... lb. No prices.
Sulphydrate, flake, 70-72%, dms., works, c.l. ... ton.115.00 - —
l.c.l., works ton.125.00 - —
liquid 34-40% 100% basis, tanks, works ton100.00 -117.00
Tetraborate (see Borax).
Tetrasulphide liquid, 40% dms., c.l., works. lb. .03½- —
l.c.l., works ..... lb. .04 - —
Thiocyanate, CP, dms ..... lb. .55 - .65
tech., dms. works ..... lb. .30 - —
Thiosulphate, NF cryst., bbls lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½- —
5 tons works lb. .10¾- —
1 ton or less, works lb. .11 - —
Trichloroacetate 90%, 100-lb. dms., c.l., frt. alld., E lb. .37½- —
l.c.l., frt. adjusted, E lb. .39½- —
50-lb dms., c.l., frt. alld., E lb. .38 - —
l.c.l., frt. adjusted, E lb. .40 - —
10-lb. cns., c.l., frt. alld., E lb. .44 - —
l.c.l., frt. adjusted, E lb. .46 - —
Prices West of the Rockies are 1¼c. per pound higher
Tripolyphosphate, bgs., c.l., works, frt. equald .100 lbs. 7.85 - —
l.c.l., same basis 100 lbs. 8.25 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 7.75 - —
l.c.l., works ..... 100 lbs. 8.50 - 8.90
dms., c.l., works .... 100 lbs. 8.15 - —
l.c.l., works ..... 100 lbs. 8.90 - 9.30
Tristearate fib. dms., 20,000 lbs. works lb. .33 - —
10,000 to 20,000 lbs., works lb. .35 - —
smaller lots, works lb .38 - .40
Tungstate, tech. kgs. dlvd E lb. 3.15 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb .23 - —
Sodium-carboxymethylcellulose See CMC.
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, c.l., dms., dlvd lb. .23½- —
l.c.l., same basis lb .26 - —
Sodium sulpha, drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less than 1,000 lbs., same basis lb. .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum, 100° F., tanks, Baytown, Tex gal. .31 - —
Bayonne ..... gal. .35 - —
150° F., flash, tanks, Baytown, Tex gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works lb. .32 - —
10,000 to 20,000 lbs., works lb. .34 - —
smaller lots, works lb. .37 - .39
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
ton-lots to 5 tons, works lb. .32 - .33
powd., dms., ton lots to 5 tons, works lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works .... lb. .24¼- —
ton lots, works ..... lb. .25 - —
less ton lots, works lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
less ton lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 41% bulk, Decatur. ton.70.50 - —
protein chemically isolated 40,000 to 60,000 lbs., dlvd lb. .23½- —
20,000 to 40,000 lbs., same basis lb. .23¾- —
100 to 20,000 lbs., same basis lb. .24¼- —
mechanically refined, bgs., 40,000 lbs., same basis lb. .0605- —
20,000 lbs., same basis lb. .0620- —
smaller lots same basis lb. .0635- —
Sparteine sulphate, ens ..... oz. .85 - 1.25
Spearmint leaves, bls ..... lb. .60 - .65
Spikenard root, bls ..... lb. .45 - .48
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd. super bgs., c.l., works. lb. .05½- —
l.c.l., works ..... lb. .05¾- —
Squaw vine leaves, bls ..... lb. .45 - .46
Squill red fortified powd., bbls. boxes lb. 1.60 - —
white, bls ..... lb. .12 - .15
powd., bbls., bxs ..... lb. .18 - .21
St. John's bread edible, bls .... lb .10 - 13
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y. 100 lbs. 7.14 - —
l.c.l. ..... 100 lbs. 7.20 - —
powd., paper bgs., c.l. 100 lbs. 7.26 - —
l.c.l. ..... 100 lbs. 7.32 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.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Sulfathiazole U.S.P.
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Sulfabenzamide
Sulfaguanidine U.S.P.
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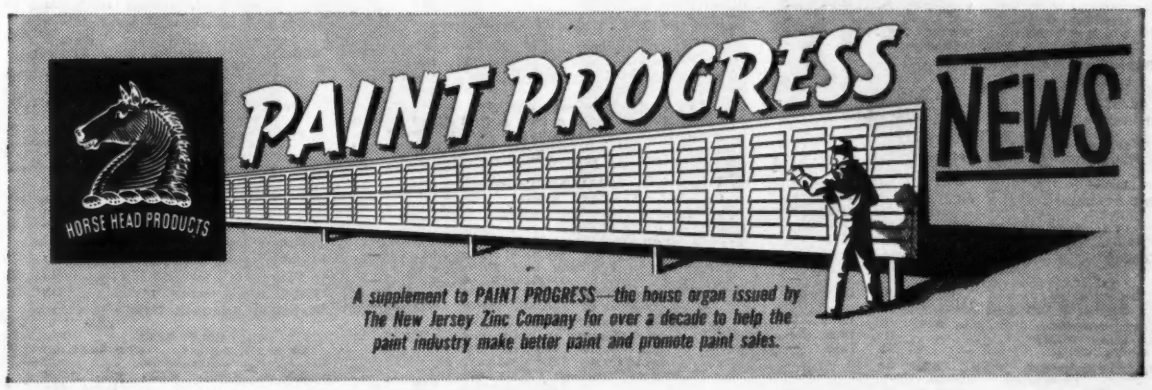
Starch, potato, dom., Idaho, bgs., c.l., works	lb.	.08½	Nom.
Maine, bgs., c.l., works	lb.	No stocks.	
l.c.l., spot	lb.	.12 -	.13
imported, bgs., l.c.l.	lb.	.09¼ -	.12
Rice, l.c.l., bgs	lb.	.15 -	.17
Wheat, bgs	lb.	.0675 -	.0710
Stavesacre seed, bgs	lb.	.60 -	.61
Stearin, oleo (see Oleostearin).			
Stillingia root, bls	lb.	.30 -	.31
Stomach substance, not USP, fib. dms	lb.	2.95 -	3.10
Stoneroot, bls	lb.	.07½ -	.08
Storax, USP, cs	lb.	1.25 -	—
Stramonium leaves, bgs	lb.	.16 -	.18
Streptomycin either hydrochloride or sulphate, bulk	gram.	.21 -	—
Strontium bromide, NF, cns., dms.	lb.	.77 -	.78
Carbonate, 92%, dms	lb.	.23 -	—
Chloride, tech., bbls	lb.	.24 -	.26
Chromate, bbls., works	lb.	.46 -	—
Iodide jars, 25-lb. lots	lb.	3.37 -	—
Nitrate, bbls., cs, works	lb.	.10¼ -	.11
Oxalate, bbls., works	lb.	No prices.	
Salicylate, NF, dms	lb.	1.65 -	—
Sulphate, air floated, 90%, 325 mesh bgs., works	ton.	56.70 -	66.15
Strontium-calcium sulphide phosphorescent, dms., works	lb.	2.80 -	2.85
Strophanthin, NF, bots	oz.	25.00 -	25.50
Strophanthus seed, Komba, biologically tested, bgs	lb.	3.25 -	—
Strychnine, NF, powd., cans, 100 ozs	oz.	1.25 -	—
Phosphate, NF, 100 ozs	oz.	1.14 -	—
Sulphate, USP, powd., cans, 100 ozs	oz.	1.00 -	—
Styrene monomer, dms., c.l., works	lb.	.22¼ -	—
l.c.l., works	lb.	.23¼ -	—
tanks, works	lb.	.21 -	—
Styrolyl acetate, bots	lb.	1.47 -	1.75
Sucrose octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works	lb.	.71 -	—
Sugar coloring (see Caramel coloring).			
Sugar of milk (see Milk sugar).			
Sulphabenzamide, dms	lb.	4.00 -	4.50
Sodium, dms	lb.	4.10 -	4.60
Sulphacetamide, fiber dms	lb.	4.00 -	4.20
Sodium, fib. dms	lb.	5.00 -	5.26
Sulphadiazin, USP, microcrystals, dms	lb.	10.60 -	11.10
powder, dms	lb.	10.25 -	10.75
Sulphadiazin-sodium, USP, dms	lb.	11.25 -	11.75
micro crystals, dms	lb.	10.60 -	11.10
Sulphaguanidin, USP, dms	lb.	4.00 -	4.50
Sulphamerazin, USP, micro crystals.	lb.	10.65 -	11.15
Sulphamerazin-sodium, USP, dms.,	lb.	11.25 -	11.75
Sulphamethazine, micro crystals, dms	lb.	8.90 -	9.40
powder, dms	lb.	8.50 -	9.00
Sulphanilamide, USP, 30-80 mesh., dms	lb.	1.40 -	1.60
microcrystals, dms	lb.	1.70 -	1.90
powder, dms	lb.	1.30 -	1.50
Sulphanilamidoquinoxaline, veterinary, dms	lb.	6.50 -	6.75
Sulphapyridin, NF, powd., bots., tins.	lb.	7.00 -	7.50
Sulphapyridin-sodium monohydrate, dms	lb.	7.50 -	8.00
Sulphathiazole, USP, micro crystals, dms	lb.	3.15 -	3.30
powder, dms	lb.	2.80 -	2.95
Sulphathiazole-sodium, USP, dms.,	lb.	2.80 -	2.95
Sulphur, commercial, flour, bgs., mines	100 lbs.	2.03 -	—
bbls., mines	100 lbs.	2.20 -	—
lump, bgs., mines	100 lbs.	1.70 -	—
bbls., mines	100 lbs.	2.00 -	—
crude, bulk, c.l., mines, contract.	long ton.	21.00 -	22.00
f.o.b., vessels, Gulf ports, export	long ton.	25.00 -	27.50
domestic and Canada	long ton.	22.50 -	23.50
refined, flowers, USP, bgs., mines	100 lbs.	3.60 -	—
bbls.	100 lbs.	4.75 -	—
flour, light, bgs., mines	100 lbs.	3.35 -	—
bbls., mines	100 lbs.	4.25 -	—
lump, bgs., mines	100 lbs.	2.90 -	—
rolls, bgs., mines	100 lbs.	3.35 -	—
bbls., mines	100 lbs.	3.80 -	—
salt block, bgs., mines	100 lbs.	3.10 -	—
virgin block, bbls., mines	100 lbs.	3.05 -	—
rubbermakers, com'l, regular bgs., mines	100 lbs.	2.25 -	—
bbls., mines	100 lbs.	2.40 -	—
99-100% passing through 325 mesh, bgs., mines	100 lbs.	2.25 -	—
bbls., mines	100 lbs.	3.40 -	—
refined, bgs., mines	100 lbs.	2.85 -	—
bbls., mines	100 lbs.	2.95 -	—
treated, 2.5% mineral oil, bgs., mines	100 lbs.	2.45 -	—
bbls., mines	100 lbs.	3.80 -	—
10% pine tar, bgs., mines.	100 lbs.	3.65 -	—
Dichloride, dms., c.l., works, frt. equald.	lb.	.03¼ -	—
l.c.l., same basis	lb.	.04¼ -	—
tankcars, same basis	lb.	.03¼ -	—
Dioxide liquid, com'l, cyls., works	lb.	.09 -	—
multi unit cars, works	lb.	.0533 -	—
tanks, works	lb.	.045 -	—
refrigeration, cyls., l.c.l., dlvd.	lb.	.20 -	.26
Monochloride, 55-gal. dms., c.l., frt. equald	lb.	.03½ -	—
l.c.l., same basis	lb.	.04¼ -	—
tanks, same basis	lb.	.03¼ -	—
washed, NF, bot	lb.	.11 -	—
Sumac leaf, 28%, bgs., ex-dock,	short-ton.	110.00 -	—
ground, same basis	ton.	110.00 -	—
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk,	Baltimore	unit-ton.	.86 -	—
Carteret, N. J	unit-ton.	.86 -	.88
triple, 48% or more, a.p.a., pulv., bulk, East Tampa, Fla	unit-ton.	.91 -	—
Sweet basil, California, bgs	lb.	1.05	Nom.
imported, bgs.	lb.	.80 -	1.20

T

2,4,5-T, dms., c.l., works	lb.	1.60 -	—
l.c.l., works	lb.	1.63 -	—
Isopropyl ester dms. c.l., works.	lb.	1.70 -	—
l.c.l., works	lb.	1.75 -	—
Talc, dom., ordinary, Calif., grd., bgs., c.l., works	ton.	25.00	35.00
Vermont off color, grd., bgs., c.l., works	ton.	14.00 -	—
l.c.l., works	ton.	17.50 -	—
fibrous, New York, grd., bgs., c.l., works	ton.	25.00	30.00
l.c.l.	ton.	26.00	35.00
99.5%, 325 mesh, bgs., c.l., works	ton.	27 00	—
l.c.l., works	ton.	30.00	32.00
99.95%, micronized, bgs., works,	ton.	36.00 -	—
imp. Canadian, grd., bgs., c.l., mines	ton.	15.25	35.00
Tallow, edible, tanks, dlvd	lb.	.08	Nom.
inedible, extra	lb.	.05½ -	—
fancy	lb.	.05¾ -	—
No. 1	lb.	.04½ -	—
special	lb.	.05 -	—
sulphonated, 25%, dms., l.c.l.	lb.	.06½ -	.07
50%, dms., c.l.	lb.	.09½ -	.10
Tamarind, W.I., bbls	lb.	.11 -	.12
Tankage, animal, feeding, 9-11% ammo, bulk	unit-ton.	7.00 -	—
Chicago	unit-ton.	8.00 -	—
Tansy leaves dia	lb.	.25 -	.30
Tapioca flour, high grade, ex whse., bgs.	lb.	.14 -	.20
Tar acid oil, 15-18%, dms., c.l., frt. equald.	gal.	.47 -	.49
l.c.l., same basis	gal.	.50 -	.51
tanks, same basis	gal.	.39 -	—
25-28%, dms., c.l., same basis.	gal.	.54 -	.56
l.c.l., same basis	gal.	.57 -	.58
tanks, same basis	gal.	.46 -	—
50-53%, dms., c.l., same basis.	gal.	.70 -	.72½
l.c.l., same basis	gal.	.73½ -	.74½
tanks, same basis	gal.	.62½ -	—
Tar, coal (see Coaltar).			
Pine (see Pinetar).			
Tarragon herb, bgs	lb.	.45 -	.50
Leaves, bgs	lb.	.65 -	.70
Tartar emetic, tech., gran. or powd., bbls., kgs	lb.	.56 -	.59
dms.	lb.	.57 -	.60
USP, powd., bbls., dms., kgs	lb.	.61 -	.62
Terpin hydrate com'l bbls., c.l	lb.	.24½ -	—
l.c.l.	lb.	.25 -	.25½
NF, cryst., fib. dms	lb.	.70 -	.80
powd., fib. dms	lb.	.75 -	.85
Terpineol, alpha (see A).			
commercial, dms., c.l., South	lb.	.13½ -	—
l.c.l., South	lb.	.14 -	—
extra, dms	lb.	.42 -	.60
prime, dms	lb.	.36 -	.45
Terpinglycol ether, dms., c.l., works.	lb.	.23½ -	—
l.c.l. works	lb.	.25½ -	—
tanks, works	lb.	.22 -	—
Terpinyl acetate, extra, cns., dms.	lb.	.55 -	.70
prime, dms	lb.	.55 -	.60
Propionate, dms	lb.	1.75 -	2.00
Terra alba (see Gypsum).			
Testosterone, USP, 100 gms., bots.	gm.	1.90 -	—
Propionate, USP, 100 gms., bots.	gm.	1.90 -	—
Tetrachloroethane, dms., works	lb.	.12½ -	—
Tetrachloroethylene, tech. (see Perchloroethylene).			
USP, 55-gal. dms., works	lb.	.20½ -	.21½
smaller, dms., works	lb.	.23½ -	.25
Tetraethyl orthosilicate, dms., c.l., works	lb.	.71 -	—
l.c.l.	lb.	.72 -	—
Pyrophosphate, 40%, cns., dms., dlvd	lb.	.714 -	—
Tetraethylenepentamine, dms., c.l., dlvd., E	lb.	.57½ -	—
l.c.l., dlvd. E	lb.	.58½ -	—
tanks, dlvd E	lb.	.56 -	—
Tetrapotassium phosphate, (see Potassium phosphate).			
Tetrasodium pyrophosphate (see Sodium pyrophosphate).			
Thalium metal, dlvd	lb.	12.50	15.00
Sulphate, 99%, bots., dlvd	lb.	10.50	13.00
Theobromine fib. dms	lb.	3.75 -	—
Salicylate, fib. dms	lb.	4.25 -	—
Sodio-salicylate, fib. dms	lb.	3.10 -	3.15
With sodium acetate, USP, dms.	lb.	3.80 -	3.85
Theophylline, anhydrous or USP, 100-lb. dms	lb.	4.40 -	4.45
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms	kilo.	135.00 -	—
Mononitrate, USP, fib. dms	kilo.	135.00 -	—
Thiocarbanilide, dms	lb.	.44 -	.51
Thiodiphenylamine (see Phenothiazine).			
Thiophene, dms., c.l., works	lb.	1.99¾ -	—
l.c.l., same basis	lb.	2.00 -	—
Thiourea, tech., dms., c.l., works	lb.	.43¼ -	—
l.c.l., works	lb.	.45½ -	—
100-lb. lots or more,			
Thorium nitrate, purified, fib. dms., works	lb.	3.50 -	—
Threonine dextro laevo, bots., 1-kilo lots	kilo.	600.00 -	—
Thyme, French, bgs	lb.	.22 -	.25½
Spanish, bls	lb.	.11 -	.11½
Thymol, fib. dms	lb.	3.25 -	3.30
Iodide, NF, dms	lb.	6.30 -	—
Timbo root (see Cube root).			
Tin chloride, stannous, anhyd., dms. works	lb.	.98½ -	.99½
Crystals, hydrous, bgs., bbls., works	lb.	.80¾ -	—
Metal	lb.	1.21½ -	—
Oxide, dms	lb.	1.23	1.24
Sulphate, stannous, bbls	lb.	1.09	1.11
Tetrachloride, anhyd., dms., works.	lb.	.89 -	.90
Titanium dioxide anatase, chalk resistant, bgs., c.l., dlvd.	lb.	.21 -	.21¼
l.c.l., dlvd.	lb.	.22 -	.22½
regular, bgs., c.l., dlvd	lb.	.21 -	.21¼
l.c.l., dlvd.	lb.	.22 -	.22½
ceramic, bgs., c.l., dlvd	lb.	.21 -	.21¼
l.c.l., dlvd	lb.	.22 -	.22½
metallurgical, natural granular, bgs., c.l., f.o.b. Jacksonville, Fla	ton.	110.00 -	—
c.l., Niagara Falls, N. Y.	ton.	127.50 -	—
5 tons, same basis	ton.	132.50 -	—
ton lots, same basis	ton.	137.50 -	—
(Milled, $7.50 per ton higher.)			
rutile, non-chalking, bgs., c.l., dlvd. E	lb.	.23 -	.23¼
l.c.l., dlvd. E	lb.	.24 -	.24¼
Hydride, cns., works	lb.	7.95	9.00


HORSE HEAD PRODUCTS
PAINT PROGRESS
NEWS
A supplement to PAINT PROGRESS—the house organ issued by The New Jersey Zinc Company for over a decade to help the paint industry make better paint and promote paint sales.

Why KADOX* is the Outstanding Zinc Oxide

FOR INTERIOR FINISHES

Ultra-fine particle size is the key to the paint industry's wide acceptance of Kadox in interior paints. It contributes the following important features to a greater degree than conventional zinc oxides:

In ENAMELS		In OIL-BASE and ALKYD FLATS
Up to 15% Kadox is used to impart these advantages:		Even 5% Kadox provides these features better than 15% of regular oxide:
Cuts after-yellowing without inducing haze	1	Adds scrub resistance
Aids through-drying	2	Cuts after-yellowing
Adds more toughness	3	Improves suspension in can
Improves suspension in can	4	Imparts better sealing
Imparts better body	5	Gives more enamel holdout

If you would like complete details on the use of Kadox, just contact our nearest sales office or representative.

*While both Kadox-15 and Kadox-515 are used by the paint industry, Kadox-515 is generally preferred because it is controlled for color and brightness.

THE NEW JERSEY ZINC COMPANY
Producers of Horse Head Zinc Pigments
... most used by paint manufacturers since 1860
160 Front Street, New York 38, N. Y.

HORSE HEAD PRODUCTS

Titanium Pigment—Zirconium Nitrate

Titanium pigment, calcium-rutile, base, bgs., c.l., dlvd.... lb. .06 - .06½
Titanium dioxide and pigment in bbls., ¼c. higher, Pac. coast. c.l., dlvd. L.c.l., ex whse., ½c higher.

Tetrachloride, tech., dms., c.l., works lb. .45½- —
l.c.l., works lb. 48½ .56½
tankcars, works lb. 44½- —
Toludin base, distilled, kgs lb 1.30 —
Tolu balsam, ens., dms lb. 3.75 - 4.85
Toluene (see Toluol)
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .30 - —
Chicago dist gal. .33 - —
Cleveland dist gal. .32¾ - —
Geneva, Utah gal. .26 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .30 - —
Lackawanna, N. Y gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo. gal. .32 - —
Philadelphia, Pa gal. .33½ - —
Pittsburgh dist gal. .30 - —
Sparrow's Point, Md gal. .32 - —
Syracuse, N. Y gal. .30½ - —
Terre Haute, Ind gal. .33½ - —
Wyandotte, Mich gal. .34¼ - —
Youngstown, Ohio gal. .30½ - —
Petroleum, industrial, 2° tanks, works:—
Albany, N. Y gal. .33 - —
Bayonne, N. J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill gal. .33 - —
Tonga, 50% bark and vine, bls lb. .60 - .65
Tonka beans, Angostura cks lb 1.75 1.80
Brazilian, Surinam, cs lb. 1.10 - 1.25
Totaquine (60-65% tots cns oz .42 —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
less than ton, lots, works lb. .23 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .42¾ —
l.c.l., same basis lb. .43¾- .45½
tanks, same basis lb. .41 —
Tributyl citrate, tech., dms., c.l lb .40½ —
l.c.l. lb. .41½- —
tanks lb .39 —
Phosphate, dms., c.l., frt. alld lb. .51¾ .63½
l.c.l. same basis lb. .52¾ .64½
tanks lb. .50 —
Tributylamine, dms., c.l., works, lb. .73½ —
l.c.l., same basis lb. .75 —
tanks, same basis lb. .72 —
Trichlorobenzene, dms., c.l., works, frt. alld lb. .12½ —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .11 - —
Prices in the West 1¾c. higher.
Trichloroethane, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½- —
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald lb. .11 —
dlvd. E. lb. .12½- —
l.c.l., works, frt. equald lb. .11½- —
dlvd. E. lb. .13½- —
tanks, works, frt. equald lb. .10 - —
dlvd. E. lb. .11 - —
Tricholine citrate, 65% solut., ref. chys., works, frt adjusted. lb. 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd lb. .33 - —
petroleum dms., c.l., dlvd lb. .34¾- —
l.c.l., dlvd. lb. .35¾- —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .26¼ —
l.c.l., same basis lb. .27½- —
tanks, same basis lb. .24½ - —
Triethylamine, dms., c.l., works, frt. alld. E. of Rockies lb. .45½ —
l.c.l., same basis lb. .46½- —
tanks, same basis lb. .43¾- —
Triethyl citrate, tech., dms., c.l lb .37½ —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Phosphate dms., works, c.l lb. .36 - —
l.c.l. same basis lb. .39 - —
tanks, same basis lb .37 - —
Triethyleneglycol, dms., c.l., dlvd E. lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb .21½- —
Triethylenetetramine, dms., c.l., dlvd E lb. .48½ —
l.c.l., dlvd E lb. .49½- —
tanks, dlvd E lb .47 - —
Trimethylamine, 25-40%, dms., c.l., works, frt equald, 100% basis lb. .38 - —
l.c.l., works, frt equald, 100% basis lb. .38½ - —
tanks, works frt equald, 100% basis lb. .33 - —
Tripentaerythritol, bgs. c.l., works. lb. .36½ —
l.c.l., same basis lb .39½- —
Triphenyl phosphate bbls., c.l., frt. equald lb .37 - —
l.c.l. frt equald lb .38 - —
Triphenylguanidine, bbls, works lb .90 - —
Tripoli, air floated, bgs. c.l. works lb .02 —
double grd., bgs. c.l., works lb .0185- —
single-grd., bgs., c.l., works lb .0175- —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26¼ —
l.c.l. frt. alld lb. .27½- —
tanks, frt. alld lb .24½ —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Trisodium phosphate (see Sodium phosphate tribasic)
Trypsin, pharmaceutical, 1:80, dms., works lb. .00 5.50
Tryptophane, dextro-laevo, fib. ctns works kilo.165.00 - —
Tuba root (see Cube root)
Tungsten metal, powd. 99.9%, dms works lb 7.75 —
Turmeric root, Alleppey, bgs. lb. .22 - .22½
Haitian, bgs. lb. .11 - .12
Madras, bgs. lb. .12½- .13
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram 1.00 1.10

U

Urethane, USP, dms lb 1.50 —
Unicorn root, false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, bgs lb 2.55 - —
yellow, kgs lb 1.65 - —
Urea, dom., 46% N, bgs., c.l., wks. lb. .05½- —
l.c.l., works lb .06 - —
44% N, bgs., c.l., 20 tons, frt alld, Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton.142.00 - —
l.c.l., dlvd ton.146.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va ton.120.00 - —
C and D grades, tankcars, same basis ton.118.50 - —
37 grade, tankcars, same basis. ton.147.50 - —
Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, NF, bls lb. .40 .42
Valine, dextro-laevo, dms., works, lb. 21.00 -27.50
Valonia, beards, 40-42% tannin, bgs., ex dock ton.85.00 - —
cups 28-30% tannin, bgs., ex dock. ton.64.00 - —
extract, powd., bgs., ex dock, duty extra lb. .09½- —
Vanadium pentoxide, CP, bgs., ens, contract, works lb 7.00 - —
tech., dms, works lb 1.28 1.33
Vanilla, beans, Bourbon, tins lb. 3.75 - 4.00
Mexican, cuts, tins lb. 3.50 - 3.75
whole, tins lb. 4.00 - 4.50
Tahiti, cs lb. 3.00 Nom.
Vanillin, ex eugenol, tins, 25 lbs lb 6.75 —
smaller lots lb 3.00 —
ex guaiacol, tins, 25 lbs lb 6.90 7.25
smaller lots lb 3.05 3.15
ex lignin, tins, 25 lb. lots lb 3.00 —
smaller lots, tins lb 3.05 3.15
Vinyl acetate, 55-gal. dms., c.l., works lb. .20¾ —
l.c.l., works lb. .21¼- —
tanks, works lb. .19¾- —
butylether, normal, tech., dms., c.l., works lb. .28 - —
l.c.l. works lb .30 - —
tanks, works lb .27 - —
Ether (see Ether, divinyl).
Ethylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb .27 - —
Isobutylether, tech., dms., c.l., works lb. .26 - —
l.c.l. works lb .30 - —
tanks, works lb .22 - —
Methylether, cyls., works lb. .30 - —
tanks, works lb .27 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Trichloride (see Trichloroethane).
Pyridin, ref., dms., works lb. 1.63 - —
Viosterol, in alcohol, 1,000,000 D units per gm. bots. lots of 10 billion USP units, 1,000,000 units. .028 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm. bots., lots of 100 billion USP units, lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm 1,000,000 units. .17 - —
liquid, in oil, 1,000,000 A units per gm 1,000,000 units. .15 - —
natural, concentrates (see Oil, fishliver).
Palmitate, liquid, 1,000,000-1,800,000 A units per gm 1,000,000 units. .15 - —
B, (see Thiamine hydrochloride).
B2 (see Riboflavin)
B complex, natural (see Rice bran concentrate and Yeast).
B6 (see Pyridoxine hydrochloride).
B12 crystalline, gm. or 5 gm. vials gram.295.00 - —
oral grade solids, in containers of 1 and 5 grams of B12 activity, gm.225.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
D2 (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K1, 25 gm. bots gram. 4.50 - —
Violet methyl toner (see Blue, methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls lb. 1.95 - 2.00
tree bark, bls lb. .95 - 1.00
Warfarin, 0.5%, dms., 50 lb. lots, f.o.b. N. Y. or Chicago lb 1.95 - —
25-49 lb. lots, same basis lb 2.05 - —
5-24 lb. lots, cns., same basis lb 2.15 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton.104.00 - —
merchantable, bgs., ex dock ton.100.00 -101.00
extract, liquid 35% tannin, bbls., works lb. .10¾- .11
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra. lb .11 - —
S. Africa, 62% tannin, ex-dock, duty extra lb. .11½- —
Wax, amorphous (see Wax, microcrystalline).
Bayberry, bgs. spot lb .55 Nom
Bees, crude, African, bgs lb. .46 - .47
Brazilian, bgs lb. .70 Nom.
Central American lb. .54 - .55
refined, bleached, USP, bricks. lb. .69 - .71
slabs lb. .67 - .69
yellow, bricks lb. .56 - .57
slabs lb. .55 - .56
Candelilla, crude, bgs. lb. .75 - .77
refined, bgs lb 77 .79
Powdered candelilla, 20 mesh 5c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.
Carnauba, chalky, bgs., ton lots, No. 1 lb. No stocks.
North Country, No. 2, bgs., ton lots lb. No stocks.
No. 3, crude, bgs., ton lots lb. .90 - 1.01
refined, bgs., ton lots lb. 1.03 - 1.05
yellow, No. 1, Ceara, bgs., ton lots lb. 1.28 - 1.30
Parnahyba, bgs., ton lots lb. No stocks.
No. 2, Ceara, bgs., ton lots lb. 1.26 - 1.28
Parnahyba, bgs., ton lots lb. No stocks.
Powdered carnauba price differentials same as powdered candelilla
Esparto, African lb. .20 - .22
Japan, bgs lb. .23 - .25
Wax, microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000, lbs. group 3, works lb. .13 - .14
less than 20,000 lbs., same basis lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
less than 20,000 lbs., same basis lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
less than 20,000 lbs., same basis lb 23 .26
180°-185° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .16 - —
less than 20,000 lbs., same basis lb 17 —
black, ctns. 20,000 lbs. same basis lb 14½ —
less than 20,000 lbs. same basis lb 15½ —
white, ctns., 20,000 lbs., same basis lb. .27 - —
less than 20,000 lbs. same basis lb 28 —
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20 - —
less than 20,000 lbs., same basis lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
less than 20,000 lbs., same basis lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
less than 20,000 lbs., same basis lb. .34½- —
Montan, dom., refined, bgs lb .31 .32
German, crude, bgs lb. .12½- .13½
Ouricury, ref., bgs lb. .71 .73
Paraffin (see P).
Spermaceti, blocks, cs lb. .26 .29
cakes, cs lb .27 .30
Sugar cane, crude, imp. lb 43 —
refined, dom., works lb. .75 - .80
spot lb. 77¼ .82¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .17 .18
White precipitate, USP, powd., dms., lb 5.00 —
Whiting, limestone, dry-grd. 99.5%, 325 mesh bgs. c.l. works. ton 6.00 -10.00
smaller lots, works ton 6.50 -15.00
wet-grd., bgs., c.l., works ton.16.00 -30.00
smaller lots, works ton.21.00 -35.00
Paris white, bgs., c.l. ton.24.00 -31.00
l.c.l. ton.25.00 -40.00
Precipitated, bgs., c.l. ton.18.00 -20.00
l.c.l. ton.25.00 -35.00
Wild cherry bark, thick, natural, bls lb. .06 .07
thin, natural, bls lb. .17 .19
rossed, bls lb. .19 .22
Ginger (see Snake root, Canada).
Indigo root, bls lb. .30 - .31
Yam root, bls lb. .16 - .17
Witch hazel leaves, bls lb. .19 - .20
Woodflour 40 mesh bulk c.l., works, East ton.32.00 —
l.c.l., same basis ton.36.00 —
60 mesh, bulk, c.l., same basis ton.37.00 —
c.l., same basis ton.42.00 -53.00
80-100 mesh, bulk, c.l., same basis ton.45.00 -50.00
l.c.l., same basis ton.51.75 -57.50
Woodflour in bgs. extra, returnable.
Woolfat, crude (see Degras), USP (see Lanolin)
Wormseed, American, bgs lb. .14 .16
Levant, bgs lb. 4.25 4.50
Wormwood leaves, bls lb. .38 .45

X

Xanthorrhiza root, bls lb. .28 - .30
Xylene (see Xylol).
Xylenol, cryst., 56°-58°C. m.p., ref., dms., l.c.l., works, frt. equald. lb. .25 - —
43°-47°C., dms. c.l. same basis. lb. .212 —
l.c.l., same basis lb. .215 —
tanks, same basis lb. .190 - —
fractions, over 7°C, b.r., except meta, dms., c.l., same basis. gal. 1.31 - —
l.c.l., same basis gal. 1.34 - —
tanks, same basis gal. 1.20 - —
meta fraction, over 7° C., dms., c.l., same basis gal. 1.46 - —
l.c.l., same basis gal. 1.49 - —
tanks, same basis gal. 1.35 - —
Xylidine, mixed, dms lb .39 .90
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa gal. .33 - —
Birmingham district gal. .30¼- —
Chicago district gal. .33½- —
Cleveland district gal. .33 - —
Geneva, Utah gal. .25 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .31 - —
Lackawanna, N. Y. gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minequa, Colo gal. .34 - —
Philadelphia, Pa gal. .33 - —
Pittsburgh district gal. .30 - .35
Sparrows Point, Md gal. .33 - —
Syracuse, N. Y. gal. .30½- —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .34¼- —
Youngstown, O gal. .30½- —
Petroleum, industrial, tanks, Albany, N. Y. gal. .33 - —
Bayonne, N. J gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Philadelphia, Pa. gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill gal. .33 - —

Y

Yara yara, ens lb. 2.25 2.65
Yeast, brewer's, dry, USP, 30 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb. dms lb. .52 - —
200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb. dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .23 - —
Barium chromate yellow price differentials in other States and city zones are those for chrome yellow below.
Benzidin, AAA, bbls., dlvd lb. 1.91 - —
AAOT, bbls lb. 1.66 - 2.15
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.20 - —
Cadmium yellows, Los Angeles, and San Francisco, ex whse., 1c. per lb. higher.
Yellow, chrome, CP, bbls., dlvd. N. Penn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —
Dlvd Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss., N. C., S. C., Penns., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago
Hansa 10 G bbls. same basis as chrome lb. 2.15 - —
G pigment, bbls lb. 1.91 - —
Iron oxide, natural, bgs., c.l., works. lb. .0141- .0250
l.c.l., works lb. 0166- .0275
French type, bgs., c.l.,. lb. .04½- —
l.c.l lb .04¾- —
Peruvian type bgs. c.l lb. .0165- —
pure, bgs. c.l., works lb. .10 - —
l.c.l works lb .1025- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 4.15 - —
smaller lots lb. 4.17 - —
Ocher, American golden, bgs., works lb .01¼- .02¾
Zinc (chromate), bbls., dlvd lb. .25 - —
basic, dlvd. lb. .30 - —
Yellow dock root, bls lb. .18 - .19
Yellow xanthorrhiza (see Xanthorrhiza)
Yerba santa leaves, bls lb. .32 - .33
Yohimbine hydrochloride, bots., tins. oz 4.75 5.25

Z

Zein, bgs., 30,000 lbs. lots, works lb. .38 - —
1,000-lb to 30,000-lb. lots, works lb. .40 - —
smaller lots, works lb. .43 - —
Zinc acetate, tech, bbls, dms, works. lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. E lb. .192 —
l.c.l., dlvd E lb. .202 —
Carbonate, tech., rubbermakers, bgs., c.l., works lb. .14½- —
l.c.l., works lb. .15 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated, powd., dms lb. .26 - —
solution, 50%, dms., c.l., works. 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 5.35 - —
tanks, works 100 lbs 4.10 - —
tech., fused, dms, c.l., works. 100 lbs. 9.60 - —
l.c.l., works 100 lbs.10.00 - —
gran. fib., dms., c.l., works 100 lbs.10.60 - —
l.c.l. works 100 lbs.11.00 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., over 1,000 lbs., works lb. .523 - —
under 1,000 lbs., works lb. .543 - —
Dust, pigment, bbls., c.l., works lb. .16 - —
l.c.l., works lb. .17 - —
Fluoride, bbls., works lb. .40 - —
Hydrosulphite, dms., c.l., frt. alld lb. .21½- —
l.c.l. lb. .22 - .37¼
Iodide, NF, jars lb. 4.92 - —
Laurate, bbls lb. .45 - .46
Metal, slabs, E. St. Louis lb. .12½- —
Naphthenate, liquid, 8% Zn, frt. alld lb. .23½- —
10% Zn, dms., frt. alld lb. .29½- —
Oleate, fused, bbls lb. .36 - —
Oxide, pigment, American process lead-free, bgs., c.l., dlvd lb. .1423- —
l.c.l., dlvd lb. .1525- —
leaded 35%, bgs., c.l., dlvd. lb. .1440- —
l.c.l., dlvd lb. .1540- —
30%, bgs., c.l., dlvd lb. .1450- —
l.c.l., dlvd lb. .1550- —
French process, com'l green seal, bgs., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
red seal, bgs., c.l., dlvd. lb. .15½- —
l.c.l., dlvd lb. .16½- —
white seal, bgs., c.l., dlvd lb. .16½- —
l.c.l., dlvd lb. .17½- —
USP, ctns., c.l., dlvd lb. .17½- —
l.c.l., dlvd lb. .18½- —
Zinc oxide, Pac. coast prices 1c. higher; bbl. prices ¼c higher than bgs
Phenosulphonate, NF, gran., dms. lb. .30 - —
powd., dms lb. .42 - .49
Resinate, precip., dms., frt. alld lb. .26¾- —
lb. .26¾- —
Silicofluoride, bbls., works lb. .12 - .13
Stearate, tech., USP, ctns., c.l. lb. .27 - —
ton, lots lb. .30 - —
less ton lots lb. .32 - —
Sulphate, cryst., 22% Zn, bgs., c.l., works, frt. alld 100 lbs. 7.30 - —
l.c.l. same basis 100 lbs. 7.70 - —
flake, 25½% Zn, bgs., c.l., works 100 lbs. 6.55 - —
l.c.l., works 100 lbs. 6.90 - —
powdered, 36% Zn, bgs., c.l., frt. alld 100 lbs. 9.23 - 9.93
l.c.l., same basis 100 lbs.10.00 -10.70
Zinc sulphate in bbls., 40c higher.
USP, gran., dms lb. .26 - —
Sulphide, pure, bgs., c.l., dlvd lb. .2530- —
fluorescent, fib., dms., less than 1,000 lbs., works lb. 1.10 1.90
phosphorescent, fib., dms., less than 1,000 lb. lots, works. lb. 1.85 2.50
Undecylenate, dms lb. 2.25 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs 9.05 - —
l.c.l., works 100 lbs. 9.45 - —
Zinc-cadmium sulphide, fluorescent fib., dms., under 1,000 lbs., works lb. 2.10 2.90
Zinc-calcium resinate, dms., c.l., works lb. .1180- .1360
l.c.l., same basis lb. .1220- .1400
Zinc-formaldehyde sulphoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. lb. .26 - .41½
normal, dms., l.c.l., works lb. .53 - —
Zircon, (G) granular, ngs., c.l., works lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999 lbs., works lb. .03⅝- —
500 lbs. to 1,999 lbs., works. lb. .04 - —
less than 500 lbs., works lb. .06½- —
milled, bgs., c.l., works lb. .04½- —
5 tons to c.l., works lb. .04⅝- —
1 ton to 9,999 lbs., works lb. .04⅝- —
500 lbs., to 1,999 lbs., works. lb. .05 - —
less than 500 lbs., works lb .07½- —
Zircon (G) in barrels, ¼c. higher.
Zirconium acetate 15% sol ZrO2, c.l., 30,000 lbs., minimum works lb. .23 - —
Carbonate, basic, cake, bbls., works lb No prices.
Hydride, ens., works lb. 7.25 -11.50
Nitrate, dms., ex whse lb 4.50 7.00

—Continued on page 75

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Plant Inspection by FDA

The recent decision of the Supreme Court of the United States upholding the refusal under certain conditions of permission of plant inspection by representatives of the Food and Drug Administration presents some problems which call for most thorough consideration. The matter with which it has to do has numerous aspects. They all derive from that all too common characteristic of statutory construction—vagueness and other inadequacy of phraseology.

The supreme court, in its opinion, quoted the contention of the Department of Justice that section 301(f) of the food, drug, and cosmetic act must be construed as prohibiting a refusal to permit entry or inspection at any reasonable time, because, otherwise the act would have no real sanctions, and its "benign purposes" could not be realized. "All that the department says may be true," the court opines; "but it does not enable us to make sense out of the statute." In the opinion of the court, the act prohibits the refusal to permit inspection only if permission has been previously granted. It admits that such interpretation would "breed a host of problems." So, that view was not accepted; neither was the "alternative construction pressed on us" which "makes inspection dependent on consent and makes refusal to allow inspection a crime."

The keystone of the court's opinion, deserving particular attention, is this:—"The vice of vagueness in criminal statutes is the treachery they conceal either in determining what persons are included or what acts are prohibited. Words which are vague and fluid may be as much a trap for the innocent as the ancient laws of Caligula. We cannot sanction taking a man by the heels for refusing to grant the permission which the act on its face apparently gave him the right to withhold. That would be making an act criminal without fair and effective notice."

The necessity that the law be amended to make "reasonable" factory inspection practicable is recognized "in principle" in a resolution adopted at the recent mid-year meeting of the American Pharmaceutical Manufacturers Association which asks for "due safeguards and qualifications" against a misuse of this authority and that they be in "terms later to be recommended by the association." The American Drug Manufacturers Association has taken a similar stand. Other organizations in the industries affected will do well also to align themselves with the Food and Drug Administration's expressed seeking of a change in the law that will give it "clear power to enter and inspect plants after giving written notice to management." This is one of those things in which business should be largely self-regulatory.

"Words which are vague and fluid" must be avoided in the amending. "Reasonable" is not a definite term: there are multitudes of criterions of reasonableness—and the one big reason is that inspection is necessary. How much time must or may elapse before entry and inspection "after" written notice must be definitely stated. It will not be conducive to the law's "benign purposes" if the interval provides opportunity for cleaning up—and it must not be a matter of minutes.

A very pertinent angle of this whole matter starts from the damage which could be done to a manufacturer and its product by some "consumer" organization by reporting that "Milk Food Corporation" or "Pill Drug Company" will not permit the Food and Drug Administration to inspect its factory—following that statement with "Why?" in big, black letters. The detriment of such comment would be far worse than that effected by the street cries of those who hawk copies of the FDA reports of seizures, charges, prosecutions, and penalizings under the act which it administers. The effects of those quotations from such reports are much more harmful to public relations than appears to be recognized.

Getting Production Data

The quinquennial census of industrial production (not including the agricultural industry) is due in 1953. Business concerns and their associations in all areas are beginning to wonder how much trouble they are going to have this time in filling out the census questionnaires. It is argued that the purposes of the survey can be as well met in a much simpler manner—and would be because the confusion would be eliminated from the furnishing of desired data. There has been some indication that the Bureau of the Census agrees with that view to some extent and is working out a simplified form. Suggestions are being sent to the bureau by various groups. The national organizations of different lines, and particularly those which represent manufacturing as a whole, should arrange for conferences with the bureau. The providing of reliable, informative statistical data on production is one of the most important undertakings in which business can do much for itself by cooperating with a governmental agency.

The same situation has been troubling manufacturers in the United Kingdom, where a census of production is taken annually. The procedure there is reported to have been substantially simplified. One innovation will be "sampling" which is designed—and expected—to exempt large sections of groups of smaller and even a substantial portion of medium-sized producers from filling out the returns. Detailed analyses of operations also will largely be done away with, only totals being required with reference to purchases, personnel, production, and sales.

Nowhere has it been reported that production data will be sought in either country on the basis of numerical, rather than monetary volume. There is, however, a growing realization of the fact that value alone is a misleading criterion of business activity because of the extent and variety of changes in unit costs or prices. There is no fundamentally useful information in a statement—it is not uncommon—that a large part of the gain, or loss, from a previous comparable period is attributable to differences in unit values. A monetary criterion may suffice for those whose interest is solely in profit; it is not an indicator of progress.

One thing should be emphasized by all business leaders in their comment and advice to their followers with reference to contributing to official seeking for statistical data. That is that all responses be honest. Those who feel that they can frame their figures and still calculate correctly from the data for their group are fooling themselves because they are not alone in such thinking. And they are misleading the analysts of the national economy on whom even they must rely for informative pictures of the industrial scene.

Enough has been said in official and other reports in the past few years about the disturbing effects of erroneous reporting of agricultural crops and manufacturing outputs to make it clear that honesty is the only good policy. There have been instances of the government's abandoning business surveys because the prevalence of a different policy made the results worse than useless. In any census of business, the thing for business to do is to get government to recognize its needs and then, itself, do everything possible to meet them by way of government.

For the Bookshelf

THE RUBBER OUTLOOK AND A STUDY OF CARTELS AND THEIR CONSEQUENCES. By John L. Collyer Paper, clip-bound; 47 pages, 4⅛ x 5⅜ in.

This is No. 14 in a series of rubber studies. Its author is the president of the B. F. Goodrich Company. It sets forth an able presentation of what has been done to maintain the profitableness of rubber in regions where it is an important, if not sole, economic prop. And it tells how the job could be done objectively with benefits for both producers and consumers and all dependent upon the traffic.

COMMERCIAL FAILURES IN AN ERA OF BUSINESS PROGRESS: 1900-1952. Paper; 31 pages, 8¼ x 10⅞ in. New York: Dun & Bradstreet, Inc.

This is a study in practical economics, comprising statistical data which have not been made to order. What they will mean to the reader depends on a variety of unknown quantities and variable factors. They can be useful. The subject is treaded along seventeen lines including scope of liabilities, the why of failures (based on 8,058 in 1951), trends by geographical areas, "the first five years are the hardest," repeaters, the effects of three wars, relationship between wholesale prices and failures. ("When prices are on the upswing, failures are decreasing.")

Copies may be got at request.

Washington Talks It Over

—*Continued from page 5*

fly on how much can be cut from the budget which the outgoing Truman administration will submit.

Although past congresses have enacted many of the Hoover Commission recommendations into law, the job is still far from complete. At least fifty-one reorganization plans drawn up by the Citizens Committee for the Hoover Report are laying around unacted upon, and more studies of government functions are going on with the view of revising, eliminating or consolidating them.

The immensity of the task of putting the government on an efficient business-like basis is shown in a recent survey which found the government now consists of 2,055 major units of administration. The vast jungle of federal bureaucracy contains twelve departments, nine agencies, nineteen commissions, twenty-eight administrations, 594 offices of this or that, twenty-one types of corporations, 125 services of or for something, 110 bureaus, 645 divisions, twenty-five branches, fifty-one boards and 416 miscellaneous missions, authorities, commands, projects, systems, etc.

Coordinating Procurement Systems

A major step in the program of coordinating procurement systems of military and civilian agencies of the federal government has just been taken by the Department of Defense, the Bureau of the Budget, and the General Services Administration. After many months of conferences and much prodding from congress, the agencies have finally gotten together on a specified program for the progressive transfer of responsibility from the military to the GSA for procurement of certain common use civilian type items.

The transfer will eventually include many items of supply required by all agencies, such as office furniture, paper and paper products, office supplies and equipment, cleaning materials and detergents, household and quarters furniture and others which GSA now handles for civilian agencies. Since specific studies are required in each instance, transfers will be made in each case on an item by item basis. (The military doesn't give up without a struggle.) As each item is transferred, GSA will announce requirements and the estimated dollar volume of purchases.

It will take time, but some efficiency will be put into the government's procurement operations yet. Congress insisted last session that the military draw up a catalog of standardized items and eliminate duplication between the services and the civilian agencies, and it's pretty certain that some pointed inquiries will be made by the appropriations committees next January as to the progress of this undertaking.

Cost of Foot-and-Mouth Disease

Foot-and-mouth disease has cost Europe approximately $600,000,000 in the past eighteen months, the Food and Agricultural Organization estimates. To protect governments against such staggering losses, the agency is suggesting a kind of insurance scheme which will cost each country only about one-half a cent a year per head of livestock.

FAO is advocating that stores of the several types of food-and-mouth disease virus be maintained in all European countries which are able to manufacture vaccine. The virus can be kept indefinitely and these stores would form a permanent reserve for rapid vaccine production to meet outbreaks. As for the vaccines, FAO advocates that sufficient quantities of internationally available stores be held in one or more countries to meet the threat of an outbreak in any country of Western Europe. Individual countries would then have to manufacture vaccines only during actual outbreaks, for the international stocks would tide them over the first several weeks while getting into production.

Quarantine and sanitary measures can partially check the spread of this animal disease, but a policy of slaughter of all infected and exposed animals is too expensive a method for many countries. Vaccination is also a good control measure, but production of vaccine is also expensive. The storage of the virus and production of vaccine at the time of need is believed by the agency to be the cheapest and best method of control available at this time.

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Heavy Chemicals

Metallic lead was advanced fractionally last week under an increased consuming demand and an uptrend in prices on the London market. It was stated that some producers of lead were limiting sales to daily intake and had a moderate waiting list at the close of the week. Quicksilver remained firm at the late advance with the scarcity of spot a sustaining factor as buying interest was less active. World production of tin increased during October and was at the highest monthly average since September, 1948. The International Materials Conference decided to allocate sulphur over the first quarter of 1953. The sulphur committee estimates the allocation at 1,675,100 long tons with the United States receiving 1,190,800 of the total amount.

Shipments of heavy chemicals were down last week, the market reflecting the holiday influence and the desire of consumers to keep stocks low for inventory reasons. Soda ash was in good supply, caustic soda stocks were a bit excessive and chlorine was about in balance. Ammonium bifluoride and the fluorides in general were not in free supply and producers in some instances were slightly behind on deliveries. Hydrofluoric acid was rather tight although not far out of balance. Glacial acetic acid appeared steadier with moderate improvement in consumer interest. Sulphuric acid continued to lean toward the long side. Calcium chloride was rather quiet for eastern shipment but going strong in the midwest. No nearby easement was in sight for nickel sulphate or other nickel salt supplies. Exhaustion of last quarter licenses kept copper sulphate quiet for export.

Ammonia, Ahydrous — Market situation seasonally quiet at present with supply and demand about in balance and some producers crowded a bit for storage space. While certain suppliers have advanced prices, others have not to date. The range extends from $79 to $82 per ton for tankcars f.o.b. the works, according to the producer.

Ammoniac, Sal—Small lot sales of white granular were reported for dry-battery use but there was no unusual activity to note. Immediate shipments remained available from producers' inventories.

Ammonium Bicarbonate — Recent purchases by the cracker bakeries appear to have satisfied demand temporarily and inquiry from other consuming sources has not exceeded seasonal limits. Stocks are adequate to meet requirements.

Calcium Chloride—No important buying spurts for eastern shipment were noted last week. The unseasonal warm weather appeared to hold demand down. In the midwest, the situation was different with demand active and sales fully up to normal dimensions. The availability of stocks has not been a problem so far this season.

Chlorine—While some producers were running flush with contracts, others had stocks available and the overall supply situation may be described as comfortable. Buying interst continued fair but not urgent. The price position remained firm.

Cobalt Sulphate—September production was placed at 18,183 pounds gross weight by the Bureau of Mines. August output was 22,726 pounds. September shipments amounted to 20,245 pounds and stocks on September 30 were 93,818 pounds, compared with 95,880 on August 31.

Copper Sulphate—Slight improvement in agricultural inquiry noted in the preceding period continued last week although there was an absence of important sales. Industrial demand was reported good. Export inquiry quieted down with fourth quarter allocations exhausted and licenses for first quarter of 1953 not issued to date. Supply position fully adequate to meet requirements in full.

Potash, Caustic—Buying interest was a bit slower but about in line with other years at this time. Scattered sales for immediate shipment of liquid were reported while the day forms were relatively quiet. On producing quarters, it was stated that a good volume of business has been placed for shipment over 1953. There is no scarcity of stocks at present.

Potassium Carbonate — Demand was sustained at a satisfactory level, somewhat above the usual average for late December. The glass plants have been forced to maintain inventories at working levels. Supply conditions were mostly favorable although in some producing quarters, immediate shipments were slightly tight.

Potassium Chlorate — Relatively quiet last week with a moderate inquiry from match factories where inventories have run low in some instances. Prompt shipment continued available.

Soda Ash—Tonnage shipments of both light and dense ash slackened last week. The movement was said to be seasonally normal but the influence of the year-end inventory period combined with the holidays had the usual effect of restricting demand from the various consuming industries. Supply conditions remained comfortable with no indication of any serious shortage in sight

Soda, Caustic—Continued readily available for about any form desired. Demand was moderately active and well in line with other years at this time. According to producers, a satisfactory amount of contract business to regular consumers has been entered for future shipment with production fully capable of meeting any peace-time requirements that may materialize.

Sodium Bicarbonate—Market conditions remained about normal at the year-end. Production has kept supplies at a favorable level and immediate requirements are being covered readily at former prices.

Sodium Chlorate—Some pick-up in inquiry during the past month for industrial use. Weed killer demand expected to expand next month. Present supply situation satisfactory with prompt shipments available.

Sodium Nitrate—No unusual activity this month. Small lot sales to replenish inventories about the best that can be noted. Producers fully capable of meeting requirements promptly.

Sulphur—Current production has kept demand leveled off in most directions. The supply situation is just about the reverse of what it was a year ago when stocks were definitely tight and under strict government regulation.

A concession to develop sulphur deposits near Otavalo, Ecuador, has been granted to Ecuadoran interests. United States capital also is reported to be involved in the project. Sulphur deposits in the area are said to be of high content. An additional concession for sulphur has been granted in the Galapagos Islands; other interests also have concessions there. The Central University of Quito, which has concessions in Chunchi and Isilivi, has applied for an additional concession in Chunchi.

Acids

Acetic—Improved demand has created a steadier tone to the glacial market and the tankcar price appeared firm at 9c. per pound for tankcars delivered. There was no shortage of stocks and immediate shipments continued available.

Hydrofluoric—No excess stocks at present. Demand is active enough to absorb production readily and the supply condition is relatively tight.

Hydrofluosilicic—Supply situation satisfactory and in balance. Small lot sales for immediate shipment have predominated with former prices still current.

Muriatic—Prompt shipments were available last week. Stocks are not flush in this area and although requirements are being covered, the market supply is not exactly comfortable.

Nitric—This market has not varied from its firm position. It has been a long time since prices were subjected to an important change and there is no indication of such a move at present.

Sulphuric—Stocks have been kept at a level to meet all requirements and it is apparent the market will close the year with supplies comfortable. The easement in sulphur has greatly brightened the outlook for the new year.

Nonferrous Metals

Aluminum — A new production record for the aluminum industry was established this year. The Aluminum Association states that on the basis of definite figures for the first eleven months, total production of primary aluminum in the United States during the year is estimated at 1,860,000,000 pounds. This exceeds the

For Late Market Developments, See Page 4

Price Trends

Advanced
Lead metal, ¼c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
95.89	95.89	95.62	97.92

(*For Current Prices see Page 9*)

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1,840,358,000 pounds produced in 1943, peak year of World War 2.

Primary aluminum ingot production for October totaled 77,312 short tons, according to the Bureau of Mines. Drought conditions in the Pacific Northwest led to a continuation of the power interruptions begun early in September. Total aluminum production in October remained about 10 percent below the high point of 85,175 tons in August largely as a result of the curtailed power supply.

Copper—Production of refined copper in the U. S. during November was placed at 100,075 tons by the Copper Institute. October output was 105,770 tons. Deliveries to fabricators in November amounted to 125,338 tons, compared with 138,759 in the preceding month. Stocks on November 30 were placed at 69,237 tons, against 59,760 on October 31. The daily average production for November was 4,178 tons, compared with 4,476 in October and 3,747 tons over 1951. Domestic production of crude amounted to 78,314 tons, against 81,978 in October.

Recovery of copper from all classes of nonferrous scrap totaled 932,282 short tons in 1951 compared with 977,239 tons in 1950, according to the Bureau of Mines. The decline was due chiefly to lowered activity of the primary copper producers who recovered 144,000 tons of secondary copper in 1951 and 195,000 in 1950. Secondary smelters and brass mills reclaimed 325,000 and 315,000 tons of copper respectively in 1951, which was in each case not far below the figure for 1950.

Lead—Priced higher at 14¼c. per pound New York and .1405c. St. Louis. Maintained strength in London was the major factor for the advance.

Mine production of recoverable lead in the United States in October was 9 percent above the September output and was the highest since May when the first sharp drops in the 19-cent price level occurred, according to the Bureau of Mines. Production for the month totaled 32,910 tons compared with 30,226 tons in September and a monthly average of 32,347 tons in 1951. The average daily rate of production increased from 1,008 tons in September to 1,062 tons in October. Recoverable lead output from the west central states of Kansas, Oklahoma, and Missouri increased 13 percent to 13,355 tons owing largely to the highest reported production in the Southeastern Missouri district since August 1950. Mine production from the states east of the Mississippi River was 1,045 tons in October, an increase of 18 percent over the previous month. In the combined western states lead production increased 5 percent to 18,510 tons in October. All of the states reported increases ranging from 2 percent for Utah to 54 percent for California. California's output rose sharply due to higher grade ore milled and larger shipments of smelting ore. The resumption of lead-oxide ore milling at Caselton resulted in increased lead output in Nevada. Washington lead output increased notably owing chiefly to greatly increased production.

Lead Scrap—Secondary smelters' recovery of lead, tin and antimony in September increased 8 percent over August, to a total of 42,935 short tons, according to the Bureau of Mines. Receipts of lead-base scrap and residues were 9 percent higher than in the preceding month, consumption 3 percent, and month-end stocks almost 8 percent. Secondary lead recovered in the first three quarters of the year was estimated at approximately 330,700 tons. A total of 56,530 tons of lead-base scrap and residues was received by secondary smelters in September; the largest quantity since January of this year and 9 percent more than in August. Although there was a 2,000-ton gain in receipts of battery plates, the rise was general, increases occurring in most of the other scrap classes. Battery plates alone accounted for 68 percent of the total intake.

Nickel—According to a leading producer, the free world's output of nickel this year will approximate 315,000,000 pounds, an increase of 20,000,000 over the 295,000,000 in 1951.

Canadian production was estimated at 280,000,000 pounds or about 90 percent of the total. It was stated that any civilian uses of nickel and nickel alloys have been restricted by the various governments, and manufacturers have been forced to improvise substitute materials. The largest proportion of nickel continued to be consumed by the steel industries in the United States, the United Kingdom and Canada.

Quicksilver—Although buying interest was not as active as in the preceding period, the continued scarcity of spot material has been a sustaining factor. Additional arrivals are expected this week and are destined to strong hands. Only small lots were available at the close of the week with sellers naming $215 to $217 for flask.

Tin—Advices from the Hague state the International Tin Study Group places world tin metal production at 15,500 tons in October, against 14,900 in September. This is the highest monthly output since September 1948. Malaya in October produced 5,352 tons, against 6,085 tons in September, the U. S., 3,364 tons and the United Kingdom 2,525 tons. In November, U. S. production was 4,020 tons—apparently a record monthly figure since erection of the Texas smelter, the report noted. Stocks at the end of October were 8,700 tons in the United Kingdom and

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Shell Vice-President

Dr. M. E. Spaght has been appointed executive vice-president of the Shell Oil Company, New York, a new position. As president of the Shell Development Company, a subsidiary, since 1949, Dr. Spaght has been in charge of Shell research in the United States. Dr. Harold Gershinowitz has been appointed president of the Shell Development Company, succeeding Dr. Spaght. A vice-president of Shell Oil, Dr. Gershinowitz has been head of the exploration and production branch of research.

5,000 tons in Malaya as compared with 9,400 tons and 5,000 tons respectively at the end of September.

Zinc—Domestic mine production of recoverable zinc in October was 8 percent above the September output and was the highest since June, when the price of zinc first dropped from the 19..5c. level, according to the Bureau of Mines. Mine output increased despite the decline in the zinc price 12.5c. per pound late in the month, the lowest selling price since May 1950. Production totaled 52,445 tons compared with 48,706 tons in September and a monthly average of 55,960 tons in 1951. The average daily rate of production increased from 1,624 tons in September to 1,692 tons in October. Mines in states east of the Mississippi River produced 16,044 tons of recoverabe zinc in October or 19 percent more than in September. Most of the increase in output resulted from the resumption of full-time operations at the mines in New York following the settlement of a 2½-month strike on September 15. Mine production from the west central states of Kansas, Oklahoma, and Missouri increased 5 percent to 7,289 tons in October.

In the combined western states mine output of recoverable zinc totaled 29,122 tons or 3 percent more than that produced in September. With the exception of Idaho, New Mexico and Nevada, where zinc output decreased 2, 13, and 25 percent, respectively, all of the states reported increases ranging from 5 percent to 29 percent. In Nevada lower zinc output from the Pioche district and smaller shipments of zinc-oxide ore from the former Metals Reserve Company stockpile at Jean were reflected in the state total zinc.

Chemical Engineering Staffs In Colleges in New Listing

A directory of chemical engineering faculties in the nation's colleges giving courses in chemical engineering has been announced by the American Institute of Chemical Engineers. The listing, which is available from the organization at 120 East 41st street, New York 17, is the work of the institute's chemical engineering education project committee under the supervision of Kenneth A. Kobe, professor of Chemical Engineering at the University of Texas.

The listing details all professors, assistant professors, and instructors, now staffing the nations chemical engineering departments, lists the official positions of all teaching personnel, information on degrees granted at each college, type of graduate work being done, accrediting information, and the number of unfilled staff positions. This is the second listing by the Institute, the first having been finished in 1951.

Atlas Powder Article Correction

An article appearing in the December 22 issue of OPD, concerning personnel changes in the industrial chemicals depart of the Atlas Powder Company, Wilmington, Del., erroneously referred to the Hercules Powder Company in the headline.

Foote Research Post Goes to Dr. Haseman

The Foote Mineral Company, Philadelphia, Pa., has announced the addition of Dr. J. F. Haseman to the research and development staff at Berwyn, Pa. As group leader of the new minerals separation division, Dr. Haseman will head up a team consisting of a mineralogist, a chemist and a geologist.

This new division will study the field of mineral separation and processing dealing with lithium ores and the various by-products of Foote's King's Mountain, N.C., and Sunbright, Va., operations. Dr. Haseman was a research chemist with the Tennessee Valley Authority, Wilson Dam, Ala., from 1944 until joining Foote.

Stepan Appoints Pickett

Wiley J. Pickett has been appointed eastern sales manager of the Stepan Chemical Company, Chicago. Mr. Pickett's experience started with the Victor Chemical Works and includes technical service and sales promotion work with the Colgate-Palmolive-Peet Company, U. S. Industrial Chemicals Company, Inc., and the American Alcolac Corporation.

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Hercules Reports Personnel Changes, Retirement of Koch

The Hercules Powder Company, Wilmington, Del., has announced that Dr. Raymond F. Schultz, technical director of the experiment station has been named special assistant to the director of research. Dr. Peter VanWyck, presently associate technical director of the experiment station becomes station director while Dr. Howard G. Tennant, manager of the experiment station, will continue in that post, reporting to Dr. VanWyck.

At the same time Hercules revealed that William F. Koch, manager of sales in the Salt Lake City, Utah, office for the past twenty-two years, will retire Wednesday after thirty-eight years' service, L. W. Ben Early, assistant manager since 1949, will succeed him.

Dr. Schultz has been technical director of the experiment station since last year, and before that had been director of the research center since 1945. He became associated with Hercules in 1941 as assistant to the director of research in Wilmington. A year later he transferred to the experiment station as assistant director and remained there until 1943, when he returned to the company's home office to serve on the staff of the research director.

Dr. VanWyck has been associate technical director of the experiment station since January. Prior to that, he was manager of the experiment station.

Dr. Tennent joined Hercules in 1942. He was a member of the cellulose products division, serving as research chemist, assistant group leader, and as manager of the division prior to being named experiment station manager in January of this year.

Mr. Koch became associated with Hercules in 1914. He spent his first year with the company as a salesman in the Pittsburgh, Pa., office. In 1915, he moved to Salt Lake City, first as a sales and service representative. In 1931, he was named manager. Mr. Early was explosives sales service representative, and later resident manager in the company's Los Angeles, office for six years, prior to transferring to Salt Lake City in 1948. He joined Hercules in 1937 in the explosives technical service division in Wilmington, Del. He spent several months in the Joplin, Mo., sales office in 1942, before transferring to the Los Angeles office.

DuPont Announces Dropping Of Antitrust Charge by Govt.

Crawford H. Greenewalt, president of E. I. duPont de Nemours & Co., Wilmington, Del., last week pointed out that the Department of Justice had made no public mention of the fact that that it had withdrawn a criminal antitrust charge filed in 1948 against duPont in the Federal District Court in Pittsburgh, Pa. He referred to the dropping of an indictment accusing the company and a retired employee, Henry Lackey, of conspiring with six other companies to fix prices, discounts and terms of sale of wood finishes.

"Although the antitrust division showed no distaste for publicity at the time the indictment was obtained, it seems now as though its attitude has changed," Mr. Greenewalt said. "It is now apparent that if anybody is going to tell the public that this case against duPont was dropped, it will have to be the defendant.

"This seems a trifle inconsiderate to those of us who squirmed under the initial publicity, but I suppose we should be sympathetic with a human reluctance to admit error. After all, it is the Christmas season. In any event it is my privilege to announce to the public generally that the Department of Justice, on December 2, 1952, dropped this case against us," Mr. Greenewalt said.

Other companies concerned in the proceeding elected to plead nolo contendere and paid fines. A companion case, involving paints, varnishes, enamels and lacquers, ended late last year with the acquittal by a jury in the Federal District Court in Pittsburgh of duPont and the Glidden Company, Cleveland, Ohio, the only companies that did not plead nolo contendere.

Climax Elects Thomas

Weston G. Thomas has been elected a vice-president of the Climax Molybdenum Company, New York. He is also a director and treasurer of that company.

Chem. Bonding Machine Announced

Knapp Mills, Inc., New York, has announced a new automatic machine which is reported to produce a perfect chemical bond between lead and steel. In one day, one small machine will clad a steel surface that would require eight to ten man-days to cover by hand techniques, according to Alfred P. Knapp, president of the company.

Trade Briefs

Dr. John E. Stone has joined the pulping and papermaking section of the Institute of Paper Chemistry.

Lloyd H. Mattson, sr., president of Industrial Chemical Laboratories, Omaha, Neb., has been elected a state director of the National Association of Manufacturers.

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Mathieson Places Haring, Hall in Research Posts

Dr. Robert C. Haring and Dr. Marvin J. Hall have joined the research department of Mathieson Development Company, division of Mathieson Chemical Corporation, Baltimore, Md.

Dr. Haring was formerly director of the John Powell Laboratories, Inc., Port Jefferson, N. Y. From 1933 to 1946 he was with the National Aniline Division of the Allied Chemical & Dye Corporation in Buffalo, N. Y. Dr. Hall was associate director of research and development for Lever Brothers Company, New York, prior to joining Mathieson,. From 1946 to 1949 he was director of research for the Kraft Food Company, Chicago, and prior to that assistant to the director of research at Bauer & Black, Chicago.

Chemstrand Names Tapp Polymer Group Leader

Dr. James S. Tapp has been appointed group leader, to be assisted by Drs. H. Dewey DeWitt, W. A. H. Huffman and Kenneth R. Lea, in polymer studies in the research and development department of the Chemstrand Corporation, Decatur, Ala., Dr. Frank J. Soday, director, has announced.

Dr. Tapp previously served in supervisory capacities with the Canadian National Research Council, the Canadian Armament Research and Development Establishment, and the Polymer Corporation, all of Canada.

Dr. DeWitt was previously with the Southland Paper Mills, Lufkin, Texas, and E. I. duPont de Nemours & Co., Charleston, W. Va. Dr. Huffman was a research chemist with the Department of Agriculture at Weslaco, Tex., and previously served as principal and teacher at Nashville, Tenn. Dr. Lea was formerly a professor of chemistry at McMurry College, Abilene, Tex.

Cyanamid Canadian Unit Shifts McBurney, Turchan

Appointments of Walter G. McBurney as technical director and Thomas P. Turchan as plant manager of the Niagara Falls, Ontario, plant have been announced by A. O. Williams, vice-president of North American Cyanamid, Ltd., Canadian subsidiary of the American Cyanamid Company, New York.

Mr. McBurney, who served as plant manager at Niagara Falls prior to his recent appointment, will be engaged in a program of long-range technical planning. He will be available for consultation on electrochemical problems on a Cyanamid-wide basis in the United States, Canada and South Africa. Mr. Turchan was works manager of the Niagara Falls, N. Y., division of the Stauffer Chemical Company before coming to Cyanamid in September of this year.

Armstrong Ups Holmquest

P. S. Holmquest has been named acting manager of the glass container department of the glass and closure division of the Armstrong Cork Company, Lancaster, Pa. Mr. Holmquest has assumed full responsibility of the glass container department during the leave of absence because of illness of H. C. Seaman, manager of the department. Mr. Holmquest joined the Armstrong organization in 1937 and prior to his present appointment, was serving as assistant manager of the glass container department.

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Agricultural Chemicals

Index declined to 113.08 last week from 113.13 in the preceding period. Toxaphene is priced lower in order to place this insecticide in a more favorable competitive position. Calcium cyanamide is moving more for industry than for insecticides. Formulators have taken on limited quantities of BHC in the Delta area. The movement of chloropicrin was described as satisfactory for the season. Continued absence of important buying for stock feed use resulted in lower prices for dried blood. Hoof meal was priced lower at Chicago with the fertilizer trade suspending demand temporarily. Tankage was unchanged with hardly enough demand to test the market. Limited offerings of castor pomace were purchased for fertilizer use. Steamed bone meal was quiet and unchanged in price.

No appreciable easement in the available supply of ammonium sulphate could be noted. Rumors were current that Japan had sold 250,000 tons of ammonia sulphate to Korea. If this is so it may lessen foreign competition a bit. Domestic potash shipments showed a small seasonal dip with foreign material slightly more firm. It was stated that Japan has purchased several cargoes of European potash. Superphosphate remained steady but seasonally quiet. Urea continued definitely tight.

Price Trends

Advanced
None

Reduced
Blood, dried, 25c. per unit of ammonia. Hoof meal, 25c. per unit of ammonia. Toxaphene, 6c. per lb.

Comparative Price Indexes
(100=1940 average)

Last week	Prev. week	Last month	Dec. 28, 1951
113.08	113.13	113.53	113.31

(*For Current Prices see page 9*)

Fertilizer Materials

Ammonium Sulphate—Market position continued tight with supplies shorter in some areas than in others. Buyers express some resentment to the recent advance in prices and reports of holding back orders were heard.

A plan to increase Formosa's annual fertilizer production from 138,000 metric tons to 438,000 tons calls for the establishment of two fertilizer plants, one in Keelung and another in Hualien, with a scheduled output of 176,000 tons of urea and 70,000 tons of ammonium nitrate, respectively. In addition, the Kaohsiung ammonium-sulphate plant is expanding its production from 7,000 tons to 60,000 tons. The Taiwan Fertilizer Manufacturing Corporation produced 14,000 tons of fertilizer in August, 1952, compared with 13,205 tons in July.

Bone Meal—Price for steamed unchanged at $75 per ton for domestic carlots at works. Demand rather quiet while sellers were no less firm in their views

Castor Pomace—Limited offerings were taken for fertilizer use at $37.25 per ton in bags carlots works.

Dried Blood—Priced lower at $7.25 per unit of ammonia New York and at $7 Chicago. Demand slow with buyers looking for concessions.

Fish Meal—For the seventh consecutive year menhaden production has hit a new high. The total 1951 catch was 1,100,000,000 pounds. Estimated landings for January through October 1952 are 1,240,000,000 pounds, the National Fisheries Institute states. If November and December of this year prove as productive as the same months of 1951 the total catch for 1952 will exceed 1,340,00,000 pounds, an increase over 1951 of 210,000,000 pounds. Production season for menhaden meal ranges from May to December 1 in Chesapeake Bay and North and most of the year off the South Atlantic and Gulf coasts.

Hoof Meal—Sellers' views were lower at $6.75 per unit of ammonia, Chicago basis. Buying interest quiet for fertilizer use.

Phosphate Rock—Market position continued firm with domestic shipments sustained at seasonal levels. High grade Florida rock remained in relatively tight supply with low grade about in balance. No new export sales.

Potassium Muriate—Market firm for domestic with a seasonal slowing down in the call for contract shipments. It is expected the movement will be resumed in full when the holiday period is passed. It was stated Japan has purchased from 10 to 15 cargoes of European potash.

Sodium Nitrate—Stocks remained comfortable with current inquiry not exceeding seasonal limits. Prices were firm and unchanged.

Labor difficulties in the Chilean nitrate industry in the year ending June 30, 1952, have been classified as acts of force majeure, thus making possible a reduction in the return to the government required of the Nitrate and Iodine Sales Corporation from sales completed in that period. Serious strikes caused a loss of at least 200,000 metric tons in output and a corresponding reduction in exports. The industry's production in 1950-51 was 1,660,000 tons and estimates for 1951-52 ranged from 1,700,000 tons to 1,900,000. However, strikes reduced output to 1,472,790 tons in 1951-52, the lowest in the industry's recent history.

Superphosphate — Domestic production of superphosphate during the month of October totaled 840,166 short tons for normal, 81,217 tons for concentrated, and 5,064 tons for wet-base goods, according to the Bureau of the Census. In comparison with September's output, these figures represent increases of 13 percent for normal and 12 percent for concentrated and show gains of 9 and 41 percent, respectively, over the October, 1951, output. Quantities produced for the period January through October, 1952, increased by 14 percent for normal and 19 percent for concentrated, while production of wet-base goods declined 9 percent from the corresponding 1951 totals.

October shipments of normal superphosphate at 884,207 tons and wet-base goods at 4,617 tons were respectively 13 percent and 7 percent greater than the amounts shipped in September. Quantities shipped during the period January through October, 1952, increased 8 percent for normal and 21 percent for concentrated, while wet-base goods decreased 37 percent from the amounts shipped during the corresponding period of 1951. During the month, stocks on hand for concentrated at 81,849 tons and wet-base at 9,847 tons increased respectively 14 and 6 percent, while stocks of the normal grade at 1,188,128 tons decreased 2 percent. The quantities held on October 31, 1952, were 20 percent greater for normal, 13 percent greater for concentrated, and 25 percent smaller for wet-base goods than the amount held on October 31, 1951.

Pesticides

Calcium cyanide is finding a seasonal outlet at prices ranging from 24c. to 50c. per pound depending upon quantity. This chemical finds a much greater use in industry than in insecticide fumigation. Toxaphene was available at lower prices, the range covering 17c. per pound for carlots and 20c. for l.c.l. at the works. The revision was made to place this chemical in a more favorable competitive position. Chloropicrin has moved well during the past season but is relatively quiet at present. The overall market has not emerged from its quiet condition. Limited interest in BHC was reported in the Delta area where is was stated that formulators had taken on small quantities. It is expected that general buying interest will increase some time in February. Producers' inventories are mostly comfortable with some heavy and the same situation is said to prevail among the dealers and distributors.

Trade sources state that they expect South Africa's imports of insecticides to be considerably greater in 1953 than in 1952 and 1951 to meet a constantly increasing demand. U. S. products have been well received and are in an excellent position to compete with those of other countries. One company plans to import aldrin and dieldrin from the United States in 1953, but does not know how much, because use of these materials in the Union is still in the experimental stage.

Peru is expected to need 2,500 short tons of dusting sulphur in 1953. About 90 percent will be used for the important cotton industry, and the rest in spraying food crops. The amount required is substantially higher than it was in previous years, as the supply of this material was short in 1951 and 1952. Newly established mixing plants, which furnish the bulk of domestic requirements, account for part of the increase.

For Late Market Developments, See Page 4

Superphosphate Plants Setup Reported by Gates, Parsons

A joint announcement has been made in Wendell, Idaho, by Gates Bros., Inc., and in Los Angeles by the Ralph M. Parsons Company of an agreement under which the two companies will combine their experience to build phosphate fertilizer plants throughout the world.

Charles T. Gates, president of Gates Bros., stated that his company has developed and are operating a modern high analysis fertilizer plant in which full use has been made of continuous processing techniques, requiring about three hours time from raw rock to finished product. Ralph M. Parsons, president of the Parsons company, announced that his company will engineer and construct wet process phosphoric acid plants and triple superphosphate plants based on Gates' design.

Arkell & Smiths Names McIntyre to Sales Post

John K. McIntyre has been appointed sales representative in the western division of Arkell & Smiths, Canajoharie, N. Y. Mr. McIntyre will work out of the Kansas City, Mo., office.

Agriculture Post to Parker

Dr. Marion W. Parker, biochemist, botanist, and plant physiologist, was appointed head of the division of rubber plant investigations of the Department of Agriculture last week. He succeeds Dr. Robert D. Rands, who retired after thirty-two years of research work in the bureau of Plant Industry, Soils, and Agricultural Engineering.

Lime Industry Survey Completed

The Bureau of Mines has announced the completion of a survey on the lime industry, with comparisons drawn between conditions as they existed forty years ago and as they exist today. It points out that in about 1910 there were 1,073 lime plants producing 3,500,000 tons of lime, while in 1950 only 168 plants were producing 7,500,000 tons. A free copy of Information Circular 7651, entitled, "The Lime Industry," may be obtained from the bureau's publication distribution center at 4800 Forbes street, Pittsburgh 13, Pa.

Larvacide Products Makes Silvera Sales Promoter

Conrad C. Johnson, president of Larvacide Products, Inc., New York, has announced that George E. Silvera has become associated with the company in connection with the promotion of sales of "Larvacide" for soil fumigation, methyl bromide and its compounds. He will work out of the home office. Mr. Silvera will spend part of his time in the field and will be available to all growers and greenhousemen for technical assistance on their agricultural and horticultural problems.

Fungicide Output Increased By Carbide for Next Year

A 250 percent increase in the production of "Crag Fruit Fungicide 341" for the 1953 growing season has been announced by the Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation. New York. During 1952, this spray material was reported in short supply because of a rapid increase in demand.

Virginia-Carolina Cowles Dealer

Earl F. Clark, manager of the heavy chemical department of the Cowles Chemical Company, Cleveland, Ohio, has announced appointment of Virginia-Carolina Chemical Company, Richmond, Va., as a dealer in Cowles anhydrous detergent silicates in the southeastern United States.

Trade Briefs

J. A. Bradnick has been named director of public relations and advertising of the West Virginia Pulp & Paper Company, New York.

W. C. Stolk, president of the American Can Company, has been elected a state director of the National Association of Manufacturers.

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Coal Chemicals

There were no price changes which affected the index of this market last week. Additional changes were still anticipated in benzol schedules. Producers were still watching the pyridin market for further changes, however little was expected there unless crude prices were advanced or OPS allowed producers relief in 2-degree material.

Toluol was still in a tight supply position, with government buying accounting for a large share of current demand. Coaltar benzol has been moving very well. Some sources reported that supplies were tightening. Demand for coaltar xylol has also been good. Industrial demand for xylol was good, and not too much petroleum material was available since much of the equipment was being tied up in toluol output.

Producers reported that the tar acids were moving fairly well in these last few weeks of the year. The cresols, cresylic acid, and phenol have been doing equally well, one source stated. Producers of synthetic phenol also said that this material was moving along nicely.

Imported ADF cresylic has not been moving as well as domestic material, according to some suppliers. However, moderate business activity was reported. Imported hot-pressed naphthalene has been very slow in movement. Prices were low and slightly weak, but the general range held last week. The lack of demand was just as true for domestic crude material, however, naphthalene producers were still moving material and were not troubled by inventories building up.

The steel industry produced a record volume of ingots and castings during the week ending December 20, the American Iron and Steel Institute announced, when 2,236,000 tons were produced.

The Institute reported that the operating rate for the week ending December 27, was scheduled to be 103.1 percent of theoretical capacity. This was equivalent to 2,141,000 tons of steel, compared with the record set the previous week when operations were at an average of 107.7 percent of capacity, and production of 2,203,000 tons one month ago.

Price Trends

Advanced
None
Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
113.47	113.47	113.51	113.88

(*For Current Prices see page 9*)

Basic Products

Benzol—There have been no further changes reported in the schedules for benzol. The recent advances scattered among various shipping points have not precipitated a general price movement. Most sources believed that an increase was coming, but could not tell when it would happen.

Demand for coaltar material has been sustained at a good level. Producers reported all of their output moving along as fast as it was being made. Some sources stated that competition among consumers for coaltar benzol has made the supply situation tight. Producers were looking ahead for a good level of buying for the first part of next year. Most sources were even more optimistic than this statement indicates, but changes in conditions could readily alter the situation as it is seen now.

Total production of all grades of benzol, except motor grade, was 20,181,909 gallons in September, compared with 18,312,642 gallons in August, according to the Tariff Commission.

A breakdown of the figures showed that cokeoven operators produced 13,658,357 gallons in September and 12,935,368 gallons in August. Tar distillers' output in September was 3,480,704 gallons as against 2,877,370 gallons in August. Petroleum operators produced 3,042,848 gallons in September, and 2,499,904 gallons in August.

In addition, cokeoven operations accounted for 163,236 gallons of motor benzol in September, compared with 144,863 gallons in August. The figures for tar distillers' and petroleum operators' motor grade production were unavailable.

Creosote—Producers reported that demand for this material has been relatively good. One source stated that there has been quite a little activity in this market in recent weeks. Prices have held to their old levels.

Tar distillers and cokeoven operators produced 12,538,052 gallons of creosote in September, as against 12,547,368 gallons in August, the Tariff Commission reports.

Of the September total, tar distillers produced 8,049,028 gallons and cokeoven operators put out 4,489,024 gallons. In comparison, August output by tar distillers was 7,891,677 gallons, and cokeoven production was 4,655,691 gallons.

Cresols—There has been no significant change in this market. Producers reported that current activity in this and other tar acids has been fairly good. The cresols started out the fall season rather well and then showed some tendency towards leveling off. These tar acids rode along at that level for about a month, and then began to show some additional pickup in demand. Prices held to the range established the previous week.

According to the Tariff Commission, total output of meta-paracresol was 627,676 pounds in September, and 697,798 pounds in August. Total production of otho-meta-paracresol in September was 846,601 pounds. The figures for August output was unavailable.

Cresylic Acid—Producers reported that this tar acid has been moving fairly well during the last quarter of the year. Activity was pretty good the past few months, although there has been some tendency towards leveling off reported as the year-end inventory problem came into action. However, some sources said that there was a fair amount of activity in the past few weeks. Prices held to the range established the previous week. There were no further changes in the schedules, but competition was expected to bring all producers prices down to approximately the same levels.

Importers indicated that they have fairly well held to the 85c. to $1 price range for ADF acid. Recent reports that material has been moving at 80c. in carloads have been termed "off-grade material, or distressed lots" by several importers. It was felt that the general market price was still 85c. per gallon, or more. Various importers reported different degrees of activity in this material, ranging from good to rather quiet activity. Most suppliers were satisfied that demand would begin to perk up soon.

The Tariff Commission reports that September production of refined cresylic acid was 3,719,668 pounds, from all sources, while August output was 2,456,504 pounds.

Napthalene—There has been no noticeable sign that any change in demand levels has been taking place in this market. Producers were pretty much agreed that they could stand more activity in naphthalene. At the same time, most domestic producers were fairly optimistic that a pickup in demand for this material would be seen after the new year got under way. Sales have not been too satisfactory during most of the last half of the year, but prices have held firmly to their old levels.

Imported hot-pressed naphthalene has not been able to hold the price line as well as domestic crude. A gradual decline has brought the range of quotations for 78-degree material down to 3.85c. to 4c. per pound, and even at that low level, some offerings have been made under the range. Sales were reported at 3.75c. and 3.90c. per pound. However the consensus was that 3.85c. more nearly represented the market. Very little imported material was being sold, sources said. "Sales were slow because consumers were trying to keep inventories down for the yearend, or because consumers were fairly well tied up in contracts for domestic production. You can take your pick," a source said.

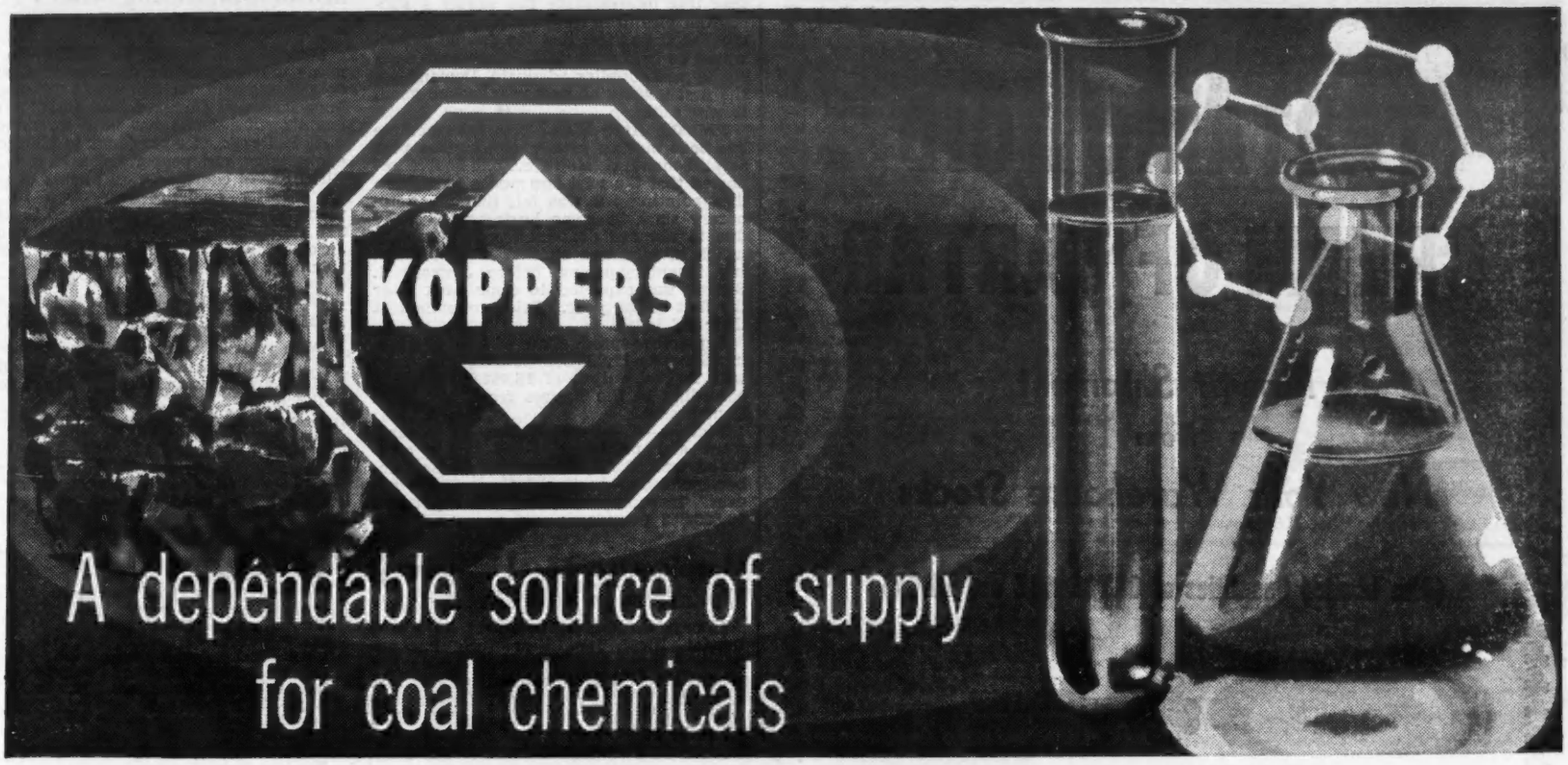
September production of crude naphthalene was 27,824,527 pounds, compared with August output of 23,699,356 pounds,

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending December 27, was as follows:—

Ammonia liquid, NH_3	lbs.	989,927
Ammonium sulphate	lbs.	35,820,221
Benzol	gals.	3,533,412
Coaltar	gals.	15,878,894
Creosote oil	gals.	656,044
Naphthalene, crude	lbs.	2,532,040
Pyridin, refined	lbs.	30,041
Toluol	gals.	692,377
Xylol	gals.	185,969

For Late Market Developments, See Page 4



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cresols
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production information from the Tariff Commission reveals.

Tar distillers produced 17,482,936 pounds of crude in September and 14,190,866 pounds in August. Cokeoven operators put out 10,341,591 pounds in September, as against 9,508,490 pounds in August. In addition, tar distillers produced 5,523,916 pounds of refined naphthalene in September, and 4,967,508 pounds in August.

Phenol—Producers reported that there was a fair amount of activity in the market for this tar acid. Some sources felt that buying, which started out quite well early this fall, leveled off somewhat, but the material was still moving at a pretty good rate. Producers of synthetic material said that business has been good, and USP phenol was moving much better than it had been during the summer slow period.

Another producer announced changes in natural phenol schedules effective last week. However, the reductions were still within the range established the week before. All producers did not come down to the newly established competative level by press-time, but further reductions were anticipated in the near future.

The Tariff Commission report indicated that total output of synthetic and natural, technical and USP grades of phenol was 28,655,946 pounds in September, as against 25,017,370 pounds in August.

Pyridin—The market for this tar base was still in short supply. Consumers have been unable to get all of the material that they wanted, however, the shortages have not seemed to have been as critical as they have been in the past. Producers reported that there was not too much pressure on them for more material and immediate deliveries.

There were no price changes reported for the 2-degree material. The current range of quotations was from 90c. to $1.15 per pound in less than carlots, while many producers were still at the $1.05 level. Some sources felt that refined pyridin prices would not be generally raised until crude prices go up, or some changes were made in OPS regulations governing the material.

Toluol—This market remained in tight supply. A good portion of the overall production has been going into direct defense uses. Industrial demand for this solvent has been good. Prices have held to their old levels.

September production of toluol totaled 6,439,491 gallons, compared with August output of 5,783,973 gallons, according to the Tariff Commission.

Cokecven operators produced 2,782,676 gallons in September, as against 2,781,032 gallons in August. The combined production of tar distillers and petroleum operators was 3,656,815 gallons in September, and 3,002,941 gallons in August.

Xylol—Producers reported that all of their output was moving right along as fast as it was being made. It was said that demand for coaltar material has been good from industrial finishes. Prices have held to their old levels.

September production from all sources was 5,868,696 gallons, compared with August output of 5,711,027 gallons, according to a report from the Tariff Commission.

Dyes

Producers reported that there has been some leveling-off of the activity in these products, and a consistent pace has been maintained. There was a good amount of optimism when the textile industry began to show signs of working its way out of the slump in September. Sales of the dyestuffs were showing a pickup through September and October, it was said, and then the pace began to slacken in November, and thus far this month. However, demand has held the ground it gained during the pickup and business was generally better than it had been. Prices have remained steady. Supplies, for the most part, have been adequate for consumers' needs. There were some tight spots which developed when a large producer of raw materials was shutdown in one of its plants due to labor difficulties. The situation was expected to clear up soon, with the settlement of the strike.

Intermediates

Anilin—According to the Tariff Commission, total output of anilin in September was 7,386,265 pounds, compared with 5,283,218 pounds produced in August.

Hydroquinone—Producers reported that the technical grade material was moving along very nicely. Supplies were adequate for the current levels of demand. Prices were steady at their old quotations.

Monochlorobenzene—Tariff Commission production figures show that September output was 25,988,272 pounds, as against 21,265,430 pounds in August.

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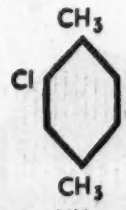

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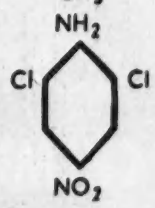
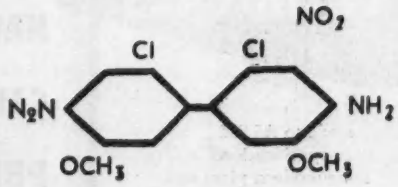


DICHLORO-DIANISIDINE



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Para-aminophenol—One source reported that this intermediate has shown a substantial pickup in demand in the past few months. It was felt that the ground gained would be held very well. Prices have been steady and supplies adequate. Demand for the first quarter of next year looked good, it was said.

Phthalic Anhydride—This intermediate has been moving rather well for the past several months. However, one source reported that the past two weeks have been disappointing. It was felt that this temporary slack in some buying was partly due to reduced demand from phthalates, which in turn was another market showing inventory-paring before January 1. Buying was expected to come back after the first of the year. Prices remained at their old levels.

September production of phthalic anhydride was 17,953,990 pounds, compared with August output of 16,462,005 pounds, according to the figures from the Tariff Commission.

Styrene—Total production of government and privately owned plants combined was 52,560,706 pounds in September, according to Tariff Commission figures. In comparison, August output was 49,860,353 pounds.

Morningstar, Nicol Names McCarron to Sales Post

George J. Muller, president of Morningstar, Nicol, Inc., New York, has announced today that Robert McCarron has joined his firm as a technical service and sales representative. Mr. McCarron formerly managed the Cincinnati, Ohio, office of Stein, Hall & Co. He previously worked as a control chemist at the Kimberly-Clark Corporation, Kimberly, Wisc., as chief chemist with the Escanaba Paper Company, and as technical director at the Wisconsin River Pulp & Paper Company.

Cresols Handling Data Offered

Information on the safe handling and storage of cresols is contained in "Manual Sheet SD-48," latest in the series of chemical safety data sheets issued by the Manufacturing Chemists' Association. The sixteen-page data publication describes precautions to be observed in unloading, emptying, handling, storage and disposal of the materials. It also describes health hazards and their control. Copies of the sheet are available at twenty-five cents each from the Manufacturing Chemists' Association, at 246 Woodward Building, Washington 5, D. C.

Productol Issues Brochure

The Productol Company, Los Angeles, has issued a brochure describing the various grades of cresol, xylenol, cresylic acid and naphthalene which it makes. Analytical data on these products are also included. Copies may be obtained by writing Productol at 920 Subway Terminal Building, 417 South Hill street, Los Angeles 13.

Minnesota Mining Makes McElroy Safety Director

Promotion of Robert W. McElroy to the newly created position of director of safety and security for Minnesota Mining & Manufacturing Company, St. Paul, Minn., and its subsidiaries has been announced.

C. P. Pesek, vice-president in charge of engineering and properties, said Mr. McElroy would coordinate all phases of safety, security and fire protection in 3M plants, warehouses and offices and those of 3M subsidiaries. Mr. Pesek also named Jerome M. Mayer manager of fire protection.

Holiday Mementoes Received

With grateful appreciation to its friends, OPD hereby acknowledges the receipt of holiday greetings and expressions of goodwill from:—

Academie de Farmacia de Cuba.
Adelphi Paint & Color Works, Inc.
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American Agricultural Chemical Company.
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Sulphur Output Record Set in '51, Report Shows

Production of Frasch sulphur increased to a record of 5,278,249 long tons in 1951, to exceed the previous year's total by 2 percent, the Bureau of Mines has reported. Sales, however, were lower than in the previous year because producers' stocks had been reduced to such a low point that further drafts upon them were considered to be unwise. During the year stocks in producers' hands increased 7 percent.

Domestic production of pyrites increased during 1951 as did the output of the various byproduct forms such as smelter acid, recovered sulphur, hydrogen sulphide and sulphur dioxide. Pyrites increased to 9 percent; smelter acid, 11 percent; and other byproduct sulphur compounds, 42 percent. Total sulphur production in all forms increased from 5,986,482 long tons in 1950 to 6,196,859 in 1951.

International trade in sulphur continued to be an important factor. Foreign demand was greater thar United States sources could supply and exports declined from 1,478,522 long tons in 1950 to 1,311,817 in 1951.

Salient statistics, in long tons, of the sulphur industry in the United States in 1951, as compared to 1950, are contained in the following table:

	1951	1950
Native sulphur:		
Production (from Frasch mines)	5,278,249	5,192,184
Apparent sales	5,095,347	5,636,959
Imports	2,377	25
Exports:		
Crude	1,287,773	1,440,998
Treated	24,044	37,526
Apparent consumption	3,785,907	4,158,462
Producers' stocks at end of year	2,837,432	2,654,530
Pyrites:		
Production	1,017,769	931,163
Imports	221,487	208,766
Recovery as byproduct:		
Production of byproduct sulphuric acid (basis 100%) at Cu, Zn, and Pb plants	736,672	661,529
Production of recovered elemental sulphur (basis 100% S)	184,013	142,475
Other byproduct sulphur compounds (basis 100% S)	59,613	[1]41,963

[1]Revised figure.

Marl Deposits in Alaska For Cement Use Reported

Secretary of the Interior Oscar L. Chapman has disclosed that analysis of a report by the Geological Survey on marl deposits in the Wasilla area, southwest of Palmer, Alaska, indicates some of the material to be suitable for the manufacture of portland cement. However, the amount of satisfactory, high marl discovered to date is insufficient for this purpose.

In a preliminary report placed in open files of the Geological Survey, Robert M. Moxham and Richard A. Eckhart, geologists, state that marl occurs in several localities in the Cook Inlet area in south central Alaska, the most significant known deposits being those found in the Wasilla area, about thirty miles north of the city of Anchorage.

The report has been placed on file in the Geological Survey offices in Washington, D. C.; San Francisco; Juneau, Anchorage and Fairbanks, Alaska, and also at the Bureau of Mines office, Anchorage and the Territorial Department of Mines at Juneau, where it will be available for use by the public. A limited mimeographed edition will be prepared and, while the supply lasts, may be obtained free on application.

Mill Products Ceiling Rise Granted International Nickel

A ceiling price increase of 2½ cents a pound for monel, inconel and nickel mill products produced at the Huntington, W. Va., plant of the International Nickel Company, Inc., has been granted by the Office of Price Stabilization.

OPS officials said that the increase is limited to the products produced at the Huntington plant and may not be passed through by manufacturerrs or processors using these products for further manufacturing or processing purposes. However, other producers, manufacturers and processors may apply to OPS for ceiling price adjustments.

Steel Shipping Barrels Output In October Over September

October production of steel barrels and drums, on an average working-day basis, was 9 percent above that of September and 6 percent under the figure for October, 1951, according to the Bureau of Census. During the month the industry turned out 2,276,644 heavy-type steel barrels and drums, 931,911 light-type steel barrels and drums and 6,899,511 light-type steel shipping packages kegs and pails. This compares with 2,187,581 heavy-type steel barrels and drums, 743,595 light-type steel barrels and drums and 6,291,210 steel shipping packages, kegs and pails in September.

Arkell & Smiths Midwest Sales Post Goes to Sloane

Arkell & Smiths, Canajoharie, N. Y., has announced the appointment of W. M. Sloane as sales manager of the newly created midwestern sales division and will make his headquarters at 205 West Wacker drive, Chicago. Mr. Sloane was formerly a sales representative in the central sales division.

Trade Briefs

M. Adolph Heikkila has joined the technical literature department of Ketchum, MacLeod & Grove, Inc.

Dr. Ralph G. Owens has been named vice-chairman of the Illinois-Indiana section of the American Society for Engineering Education.

Robert N. Conners, vice-president and general sales manager of the Chase Bag Company, has been appointed to the advisory committee of the Executive Research Council.

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TYPE & NAME	PROPERTIES AND USES	SOLUBILITY	CRYSTAL MICRON SIZE	MELTING POINT	MOISTURE CONTENT
Riboflavin U.S.P. ROCHE REGULAR	Density and low electrostatic properties provide easy handling in powdered dietary supplements, tablets, soft gelatin capsules and in dry enrichment premixes.	0.140-.200 gram per liter ◈	under 20	275°-280°C.	0.8-1.5%
Riboflavin U.S.P. ROCHE SOLUTIONS TYPE	For use in parenteral solutions which approach or slightly exceed the maximum solubility of B_2. Less likely to crystallize out.	0.120 gram per liter ◈	under 20	285°-290°C.	0.2-1.5%
Riboflavin U.S.P. ROCHE HI-SOL TYPE	A metastable crystal, dissolves fast in cold water forming high supersaturations of *indefinite* stability against crystallization. Preferred for certain types of oral liquid preparations.	0.120 gram per liter Supersaturations of 1.200 grams per liter are possible. ●	under 2	270°-280°C.	0.8-1.5% Hygroscopic. Caution must be used during handling to prevent moisture pick-up.
Riboflavin-5′-Phosphate Sodium — 'ROCHE' Theoretical B_2 content: 73% ROCHE product: 70-73%	For various types of oral and parenteral preparations requiring high solubility. Has less bitter taste than U.S.P. types.	112 mg. per cc. ■	Very fine crystal	Indefinite	Small percentage of water of crystallization.
Riboflavin-5′-Phosphate Diethanolamine—'ROCHE' Theoretical B_2 content: 63% ROCHE product: 61-63%	For various types of oral and parenteral preparations requiring high solubility. Has less bitter taste than U.S.P. types.	Exceeds 130 mg. per cc. ▲	Very fine crystal	About 200°C.	Small percentage of water of crystallization.

◈ In water at room temperature after shaking with excess for 24 hours.

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■ In water at room temperature at pH 6.9. Solubility varies with pH as shown in the following table:

pH	*Solubility*
3.8	43 mg. per cc.
5.6	68 mg. per cc.

▲ At room temperature, at pH 5.0. Equivalent to 80 mg. of riboflavin.

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Drugs and Fine Chemicals

Refined glycerin prices were upped again last week in the second such advance in the past six weeks. Refined grades, including dynamite, high gravity, USP and yellow distilled were advanced 5c. per pound while the BP, 98 percent grade was advanced 5½ cents. Mounting crude glycerin prices have made the advances necessary, according to the trade. Crude glycerin was nominally quoted. Sulphaguanidin, USP, was recently reduced 50 cents per pound, across the board.

There was limited activity in this market last week, due in some part, to the Christmas holiday. The ester solvents continued to move at fair levels. Amyl, butyl and ethyl acetates were in good supply and price schedules were firm and unchanged. Producers expressed hope that the coming year would see a stepped up consumption of these lacquer materials. The automotive industry has revealed that it hopes to increase vehicle production in 1953 some 20 percent, at least. This, of course, will have a definite relationship to the quantity of lacquers and lacquer solvents sold.

Another producer of industrial alcohol, in this case, of fermentation material, has announced that, effective January 1, 1953, he will advance his price schedules back to levels prevailing prior to November 10, 1952. Other major producers have not indicated what step, if any, that they will take in regard to changing current alcohol schedules. To date one producer of synthetic alcohol has boosted and one producer of fermentation alcohol will boost price schedules back to November levels.

There were no further price reductions in synthetic vitamins last week. Synthetic vitamin A bears watching, however, according to some observers. Competition may result in lower price schedules on this item, it was said. Demand for most drugs was fair and supplies were ample in most cases. Agar agar was in short supply with some dealers temporarily withdrawn from the market. Increasing quantities of Korean agar have been offered, in the market.

Isoniazid was in fair inquiry. Whole supplies were more than ample for demand. Prices were unchanged. Producers were eagerly awaiting the published reports in medical journals on the clinical results of isoniazid in the treatment of tuberculosis and related diseases. They were expected to be favorable, on the whole, and its use was expected to be stimulated.

Acetylsalicylic Acid—Demand for this compound was said to be fair, while supplies were adequate for current inquiry. Prices remained unchanged.

Alcohol—Demand for ethyl alcohol was fair while supplies remained ample for current inquiry. A major fermentation producer has announced that, effective January 1, 1953, the base price for ethanol will be advanced to 55c. per gallon in tankcars. This will be an increase of 15 cents over the predominant market price. This move was the first to follow the recent advance in price schedule of a major synthetic producer who announced that he had raised his price in an effort to stabilize alcohol prices.

Ethanol prices have declined steadily throughout the past year until this month. The abrupt turnabout in the price trend was a surprise to many. However, synthetic producers have fixed costs and apparently the 40 cent price for pure ethanol had been too low to operate profitably enough. The Reconstruction Finance Corporation has announced the resumption of operation of two units of the Louisville, Kentucky, butadiene plant. This plant utilizes ethyl alcohol in the production of butadiene for use in synthetic rubber production. The reactivation of two units of the Kubuta, Pennsylvania, butadiene plant which also utilizes ethyl alcohol was announced in November. According to the RFC, the reactivation of the Louisville plant was occasioned by greater consumption of synthetic rubber than had been anticipated. Present stocks of alcohol held by the RFC are sufficient for three months' operation. The RFC plans to maintain a three months' forward alcohol supply position as long as requirements necessitate the continuation of operations of the alcohol butadiene plants.

The Alcohol and Tobacco Tax Division of the Bureau of Internal Revenue, Treasury Department, on December 19, released data on the supply, production, withdrawals, and stocks of ethyl, completely denatured and specially denatured alcohol during the month of October, 1952, in comparison with October, 1951.

Price Trends

Advanced

Glycerin, refined, BP, 98%, 5½c. per lb.
Other grades, 5c. per lb.

Reduced

Sulphaguanidin, USP, 50c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
91.74	91.75	92.75	100.84

(For Current Prices see page 9)

Production

	1952 (Gallons)	1951 (Gallons)
†Ethyl	35,838,916	47,335,886
*Completely denatured	128,012	174,904
*Specially denatured	19,093,350	23,100,685

Withdrawals

†Ethly tax paid	2,058,265	3,016,437
tax free	37,199,437	53,561,419
*Completely denatured	115,156	180,210
Specially denatured	19,050,440	27,047,645

Stocks

†Ethyl	85,838,295	103,927,191
*Completely denatured	38,749	53,486
*Specially denatured	7,308,528	6,582,823

*Wine gallons. †Proof gallons.

October

According to the Alcohol and Tobacco Tax division, materials used in industrial alcohol plants in September, 1952, and September, 1951, were as follows:—

	1952 (Pounds)	1951 (Pounds)
Corn and corn products	270,648	17,202,668
Rye and rye products	.....	4,993
Malt and malt products	533,120	9,449,822
Wheat and wheat products	5,187,512	5,572,602
Sorghum grain and sorghum grain products	39,510	52,374,594
Other grain	3,586	32,431,424
Total grain	6,034,376	117,036,123
Ethylene gas	10,672,488	7,095,431
Other materials	186,624	192,155
	1952 (Wine gallons)	1951 (Wine gallons)
Molasses	11,951,791	15,286,988
Ethyl sulphate	15,560,826	15,449,539
Sulphite liquors	23,906,100	21,647,300
Other materials	9,782,121	2,482,507
†Products used in redistillation	1,350,095	2,771,917

†Proof gallons.

Butyl Acetate—Demand for this ester solvent was reportedly at fair levels. Supplies were adequate for current inquiry. Although sales have not been any too good during the past year, producers of this material look for a stepped up consumption of butyl acetate in 1953.

The announced goal of the automotive industry for 1953 production, if it materializes, was expected to increase considerably the consumption of butyl acetate as a lacquer solvent and as a lacquer component. Butyl acetate prices, meanwhile, have continued firm and there has been no indication of any further change in the immediate future. The recently announced advancement in alcohol prices by some producers has been an indication that further cuts in ester solvents made by fermentation processes was unlikely, for the present.

Fermentation and synthetic butyl acetate were currently priced at 13c. per pound on a tankcar basis with the usual differentials for drum carlots and less carlots prevailing.

Caffeine—Demand for this material was steady. Competition of lower priced imported caffeine continues to plague domestic producers although some were slow to admit to what extent. Domestic manufacturers claim that their material, however, is superior to imported caffeine with regard to physical properties.

Fastidious drug manufacturers employing caffeine in their formulations were said to shy away from imported caffeine due to its color and odor although its lower price has been the decisive factor in contributing to the inroads made by it upon the domestic market. Supplies of caffeine were ample for present inquiry and prices unchanged.

Castor Oil—Arrivals of beans at Philadelphia and New York ports last week amounted to 100,600 pounds, as compared with 5,911,050 the previous week, and 2,039,100 during the corresponding week of last year. Imports of castor oil at these ports last week totaled 2,436,000 pounds, as against the 920,000 pounds brought in during the previous week, and the 1,950,000 pounds landed during the corresponding week of 1951.

Total imports of beans so far this year at Philadelphia and New York amounted to 119,076,900 pounds, compared with 149,527,750 pounds during the corresponding period in 1951. Total oil imports at

For Late Market Developments, See Page 4

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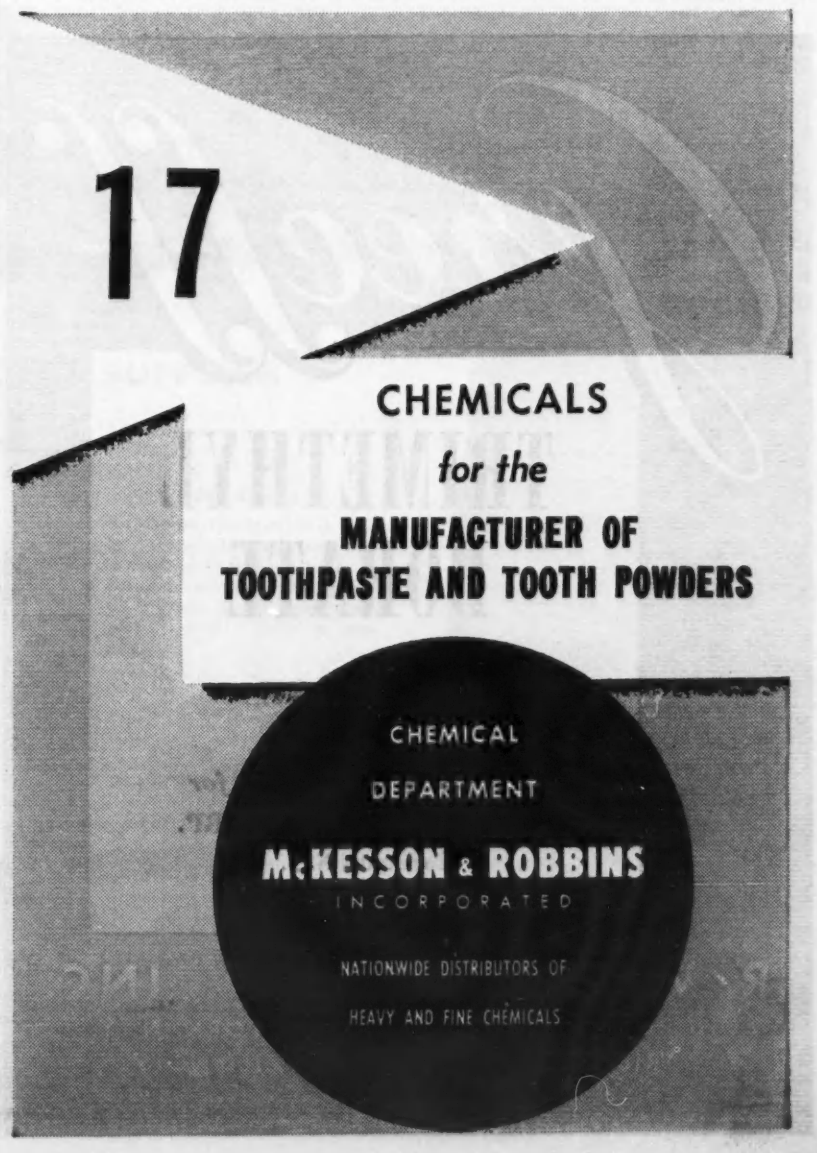

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these ports so far this year amounted to 75,135,600 pounds, as against the 57,701,529 pounds brought in during the same period of last year.

Chlorophyll—Demand for chlorophyll was good, on the whole. Supplies were adequate to meet current inquiry. Production has caught up with consumption and producers are looking for new markets.

It has been demonstrated that chlorophyll is effective in the healing of wounds. Its deodorizing properties have constituted the primary feature upon which manufacturers have capitalized this year. This past year has seen the inclusion of chlorophyll in countless products all of which emphasized the deodorizing powers of chlorophyll. Producers of chlorophyll are unanimous in the opinion that future uses for chlorophyll may conceivably transcend its present utilization. Extensive research on chlorophyll has been progressing both here and abroad. Meanwhile, it was thought likely that supplies of chlorophyll would continue ample and continued expansion in production might presage price reductions in the not too distant future.

Dextrose—Demand for USP dextrose was reportedly steady. Supplies have been ample for current inquiry while the price was without change.

Eucalyptol—Demand for this material was fair while supplies were ample for inquiry. Current prices ranged from $1.45 to $1.75 per pound.

Fusel Oil—Demand for refined fusel oil was fair while supplies were adequate for current inquiry. Prices were unchanged, ranging from 15c. to 15½c. per pound in tankcars. The usual differentials are applied for carlot and less than carlot quantities.

Producers were awaiting the new year hopefully since the announced production goal in the automotive industry was expected to presage stepped up consumption in lacquer and lacquer solvents. Fusel oil is used extensively as a solvent of both natural and synthetic resins.

Glycerin—Producers increased refined glycerin price schedules 5c. per pound last week in the second such advance in six weeks. BP grade glycerin, which is 98 percent pure, was advanced 5⅛c. per pound.

The high cost of crude glycerin made the price increase necessary, according to trade observers. Crude glycerin continues scarce and prices largely nominal.

Currently the price schedules on the various refined grades were as follows:—dynamite, 43½c. per pound in tanks; high gravity, 43½c., same basis; refined BP, 98 percent, 45⅜c.; USP, CP, 44c. and yellow distilled, 43⅜c. per pound. A ½c. and 1c. differential per pound was in force on drum carlots and less than carlots, respectively.

Glycerin consumption has been high while the increased production of detergents has resulted in a smaller volume of soap produced and consequently, less glycerin from that source.

Hydroquinone—Demand for photo grade hydroquinone was seasonally fair. Supplies were adequate for current inquiry and prices continued firm and unchanged. Consumption of hydroquinone at this time of the year is usually below the levels of Spring and Summer when picture taking is at its peak.

Isoniazid—Demand for this material was

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fair. Widely heralded earlier in the lay press this year as an effective agent in the treatment of tuberculosis, pharmaceutical producers scrambled to get on the bandwagon, causing a temporary shortage of the raw material, isonocotinic acid, at the time. Production has long since caught up with demand. Producers were said to be hopefully awaiting results of clinical evaluation tests which have been reported as generally favorable. Publication of these reports in medical journals is forthcoming and it was felt by some observers that physicians would be likely to use more isoniazid in the future as a result.

Prices were unchanged and have apparently stabilized for the time being. If future demand increases, further price reductions were thought likely since an increase in production volume almost invariably results in lower production costs.

Lanolin—Demand for this material continued at good levels and producers sorrowfully reported no easing of the shortage in lanolin. For well over a year lanolin production in this country has been woefully under consumption. The use of lanolin has increased, a factor which could be attributed to its extensive promotion in hair preparations during the past year. In addition cosmetic manufacturers have been incorporating increasing quantities of lanolin in their products.

Meanwhile, although wool scouring operations have been stepped over last year, there is not sufficient wool processed to yield the amount of lanolin needed. Imported material is available but unfortunately for most processors, foreign sellers have been asking prices which are too high in view of the situation with lanolin under a dollar and cents ceiling. However, there has been enough foreign lanolin coming in to help take some of the strain off domestic production. Nevertheless, with both domestic and imported material being used, producers have been unable to meet demand. Prospects for the immediate future are for a continued short supply, it was reported.

Milk Powder—The market in nonfat dry milk solids was weak. Supplies were plentiful and offered against light demand. Selling prices were very competitive and often a matter of negotiation.

The market in spray whole milk powder was weak with offerings liberal for spotty demand. The market in roller process was barely steady. Domestic stocks were made mostly on order, there were reports of occasional distressed lots for sale. Interest for imported goods was limited.

During the week ended December 11, milk powder imports totaled 600 bags from Denmark; 625 bags from Sweden, and 1

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case from Holland. The adjusted estimated total of imports to that date is 34,000,000 pounds of whole milk powder and 7,700,000 pounds of buttermilk powder, equivalent to approximately 13,000,000 pounds of butter and 31,400,000 pounds of nonfat dry milk solids.

Production of dry whole milk during October, at 5,475,000 pounds, was the lowest for the month since 1941. It was down 9 percent from a year earlier and 52 percent for the 5-year average for the month. For the period from January through October, 1952, production totaled 87,835,000 pounds, a decline of 27 percent from the same months a year earlier. Spray-dried whole milk was 5,025,000 pounds, a decline of 8 percent from a year earlier and only half as large as the 1946-50 average for the same month. The 10 months' total for January through October of this year was 81,785,000 pounds, a decline of 26 percent from the same months of 1951. Roller-dried whole milk output was 450,000 pounds for October, down 17 percent from a year earlier and 68 percent from the 5-year average for the month. The 10 months' total was 6,050,000 pounds, which is 38 percent below the production reported for the first 10 months of 1951.

Sulphaguanidin—The price of USP sulphaguanidin was reduced 50c. per pound across the board. Currently this material was offered at $4 per pound in lots of 1,000 pounds and over. Various quantity differentials result in a 50c. spread from $4 to $4.50 per pound.

Lilly Appoints Hoover Tippecanoe Labs Head

The appointment of Truman D. Hoover as director of the new Tippecanoe Laboratories of Eli Lilly & Co., near Lafayette, Ind., has been announced. Mr. Hoover will also continue in his present capacity as director of Lilly's glandular products manufacturing division in Indianapolis.

Production in the new Lilly antibiotics manufacturing unit near Lafayette is expected to get under way next summer. Mr. Hoover has spent twenty-eight years with the Lilly organization. Starting work at Lilly's on a pituitary-gland project, he has remained in gland work ever since and is credited with part of the early work on insulin.

Pitman-Moore Reports Retirement of Burnette

After more than thirty-six years with Pitman-Moore Company, Indianapolis, Ind., Lawrence M. Burnette, will retire, it has been announced. For almost twenty-two years Mr. Burnette has been treasurer of the company. Mr. Burnette joined Pitman-Moore as an accountant. Later he became assistant treasurer and ultimately, was promoted to treasurer.

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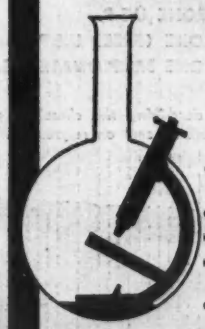

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Bristol-Myers Ups Rooney To New West Coast Post

Harry B. Rooney, for fourteen years western division sales manager of Bristol-Myers Company's products division at San Francisco, has been appointed west coast consultant to the same company, according to an announcement by Robert B. Brown, president. Mr. Rooney joined Bristol-Myers as a salesman in 1923. He was made assistant division sales manager in 1937 and division sales manager in 1938. He has served in that capacity ever since.

Bruce W. Mansfield has been appointed to succeed Mr. Rooney as western division sales manager with headquarters at San Francisco. Mr. Mansfield first became connected with a drug chain in Los Angeles where he served seven years. He joined Bristol-Myers in 1937 as central California representative. He was appointed assistant sales manager of the western division in 1950. He later was appointed division sales manager of the midwestern division at Chicago and in 1951 to a similar position at the eastern division in New York.

Sharp & Dohme Technical Operations Post to Myers

Gilbert J. Myers has been appointed to the position of manager of the newly created technical operations section of the foreign operations division of Sharp & Dohme, Inc.., Philadelphia, it has been announced by W. B. Wimpenney, director of foreign operations.

Mr. Myers, formerly with the Norwich Pharmacal Company, will be responsible for all manufacturing and control operations abroad. From 1932-42, he was associated with the C. E. Jamieson Company, Detroit, Mich., where he held several production supervisory jobs, leaving the company with the title of assistant to the general manager. He joined Norwich in 1942 as superintendent of dry manufacturing and of packaging operations. In 1947 he was made production manager and remained in that capacity until joining Sharp & Dohme.

Terramycin Feeds Output Now Possible, Pfizer Says

Charles Pfizer & Co., Brooklyn, N. Y., has announced that feed manufacturers may now for the first time produce animal feeds containing high levels of terramycin to treat or prevent specific animal and poultry diseases, as well as to stimulate growth. Pfizer said that manufacturers who use terramycin and comply with certain requirements will be able to produce feeds for their therapeutic value against blue comb in poultry, and scours and infectious diarrhea in pigs, calves, lambs and mink.

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24 bgs, Irving Trust Co, Ciudad Trujillo
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26 bgs, W R Grace & Co, Valparaiso
6 bgs, Curacao Trading Co, Port Au Prince
BENZOIN GUM—8 cs, A D Brown Assoc, Bangkok
BILBERRY LEAVES—6 bls, Meer Corp, Genoa
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83 pkgs, Rotterdam
CASTOR BEANS—286 bgs, Spencer Kellogg, Djibouti
385 bgs, Spencer Kellogg, Port Au Prince
OIL—100 tons, Baker Castor Oil Co, Antwerp
309 tons, Spencer Kellogg, Bombay
63 dms, Sarlhai Agencies, Bombay
396 tons, Recife
CELERY SEED—126 bgs, Landes & Balint, Bombay
84 bgs, K A Export Corp, Bombay
CHESTNUT EXTRACT—2,000 bgs, International Expediters, Genoa
1,000 bgs, Barkey Importing Co, Genoa
CHILLIES—100 bgs, Becker Mayer Seed Co, Kobe
36 bgs, Fuers & Bros, London
201 bgs, Corn Exchange Bank, Massawa
224 bgs, Corn Exchange Bank, Port Sudan
1,676 bgs, National City Bank, Massawa
303 bgs, Public National Bank, Massawa
100 bgs, Port Sudan
CINNAMON QUILLS—350 bls, Stein, Hall & Co, Copenhagen
100 bls, C M Van Sillevoldt, Colombo
CITRONELLA OIL—44 dms, Lo Curto & Funk, Colombo
11 dms, Manufacturers Trust Co, Colombo
8 dms, George Lueders & Co, Colombo
COCONUT OIL—500 tons, Manhattan Soap Co, Cebu
500 tons, Pacific Vegetable Oil Corp, Cebu
CODLIVER OIL—250 dms, Peder Devold Oil Co, Aalesund
500 bbls, Peder Devold Oil Co, Aalesund
160 dms, Arista Oil Products Co, Aalesund
COPAL GUM—180 bgs, Wm H Scheel, Manila
139 bgs, Internatio Rotterdam, Manila
COPPER CYANIDE—71 dms, Chemical Manufacturing Co, Glasgow
CORIANDER SEED—1,111 bgs, H S Cramer, Casablanca
CREAM OF TARTAR—60 bbls, Leghorn
CRESYLIC ACID—96 dms, Glasgow
CUMIN SEED—367 bgs, Dadourian Export Corp, Istanbul
DAMMAR GUM—200 bgs, O G Innes Corp, Singapore
50 cs, Gillespie-Rogers-Pyatt, Bangkok
50 cs, U S Industrial Chemical Co, Bangkok
DEXTRIN—1,720 bgs, Stein, Hall & Co, Rotterdam
DUBOISIA LEAVES—3 bls, S B Penick & Co, Brisbane
EARTH PAINT—984 bgs, Reichard Coulston, Larnaca
EUCALYPTUS OIL—5 dms, George Lueders & Co, Melbourne
25 dms, Magnus, Mabee & Reynard, Melbourne
35 dms, Commercial Banking Co of Sydney, Melbourne
FISHLIVER OIL—3 dms, Consumers Import Co, Yokohama
2 dms, Interocean Chemical & Minerals Corp, Yokohama
FISHMEAL—10,823 bgs, Bank of California National Assoc, Raia Farta
5,263 bgs, Bank of California National Assoc, Mocamedes
7,083 bgs, Bank of California National Assoc, Porto Alexandre
FUEL OIL—60,839 bbls, Whale Oil Co, Curacao
10,000 bbls, Asiatic Petroleum Corp, Curacao
83,001 bbls, Hess Inc, Punta Cardon
263,450 bbls, Esso Standard Oil Co, Aruba
283,399 bbls, Paragon Oil Co, Curacao
187,063 bbls, Paragon Oil Co, Tampico
92,752 bbls, Hess Inc, Puerto La Cruz
74,902 bbls, Esso Export Corp, Caripito
104,539 bbls, Metropolitan Petroleum Corp, Curacao
GALL—5 dms, F J Benkart, Vera Cruz
OX—15 cs, Fidelity Union Trust Co, Sydney
8 dms, International Packers Ltd, Sydney
7 cs, Wilson & Co, Brisbane
7 dms, Chase National Bank, Liverpool
5 bbls, Santos
SHEEP—1 dm, International Packers Ltd, Sydney
GELATIN—84 bgs, Henry Rothschild, Rotterdam
67 bbls, Coignet Chemical Co, Antwerp
351 bgs, Transatlantic Animal By Products Corp, Bremen
300 bls, Transatlantic Animal By Products Corp, Rotterdam
GINGER ROOT—60 bgs, Wm E Martin, Lagos
GLUE—510 bgs, Transatlantic Animal By Products Corp, Hamburg
200 bgs, Liverpool
BONE—500 bgs, Transatlantic Animal By Products Corp, Rotterdam
STOCK—60 bls, Manila
GLYCERIN—44 dms, International Packers Ltd, Santos
400 dms, Bunge Corp, Callao
60 dms, L Pasternak Co, Hull
GRAINS OF PARADISE—14 bgs, Wm E Martin, Lagos
GRAPHITE—250 bgs, C Pettinos, Colombo
GYPSUM—9,890 tons, U S Gypsum Co, Hantsport
224 bgs, Whittaker Clark & Daniels, Liverpool
HELLEBORE ROOT—49 bgs, Meer Corp, Genoa
INFUSORIAL EARTH—4,308 bgs, Pomeroy & Fischer, Tampico
2,956 bgs, Johns Manville Corp, Hamburg
KAMALA POWDER—16 bgs, Meer Corp, Bombay
KARAYA GUM—120 bgs, Paul A Dunkel & Co, Bombay
307 bgs, Block Drug Co, Bombay
307 bgs, Jacques Wolf, Bombay
KOLA NUTS—111 bgs, Becker Mayer Seed Co, Lagos
200 bgs, D Steengrafe & Co, Kingston
LAVENDER FLOWERS—4 cs, Meer Corp, Hamburg
4 bgs, Meer Corp, Hamburg
OIL—2 dms, L A Champon & Co, Djibouti
LEATHERMEAL—2,000 bgs, H J Baker & Bros, Hull
LEMON OIL—10 cs, Manufacturers Trust Co, Catania
LEMONGRASS OIL—25 dms, Credit Suisse, Puerto Barrios
5 dms, Hensel Bruckman & Lorbacher, Puerto Barrios
LIME OIL—1 dm, Citrus & Allied Essential Oils Co, Puerto Plata
LINALOE OIL—1 dm, W F Mahnecke, Vera Cruz
LINDEN FLOWERS—7 cs, Atlanta Textile Corp, Istanbul
LOCUSTBEAN GUM—300 bgs, T M Duche & Sons, Rotterdam
200 bgs, Morningstar Nicol, Liverpool
50 bgs, Morningstar Nicol, Genoa
100 bgs, Morningstar Nicol, Larnaca
148 bgs, Genoa
LOCUST BEANS—100 bgs, J Arthurs Co, Larnaca
200 bgs, Levy & Levis Co, Larnaca
460 bgs, Meer Corp, Larnaca
MACE—69 cs Catz American Co, Macassar
14 cs, Landes & Balint, Macassar
14 cs, Norwalk Mills, Macassar
42 cs, Becker Mayer Seed Co, Macassar
15 cs, Wm E Martin, Macassar
14 cs, Knickerbocker Mills, Macassar
14 cs, Kellys America Ltd, Rotterdam
MAGNESIUM CARBONATE—1,200 bgs, Reheis Co, Hull
MANGANESE ORE—115 bgs, Guaranty Trust Co, Cavalla
MANGROVE BARK—3,350 bgs, Olson Sales Agency, Cristobal
EXTRACT—2,400 bgs, Saxe Cutch Corp, Sandakan
MILK SUGAR—50 dms, Frank Samuel & Co, Rotterdam
MOLASSES—465,929 gals, Instituto Cubano De Est Del Azucar, Havana
1,483,834 gals, Instituto Cubano De Est Del Azucar, Neuvitas
MUSTARD OIL—8 cs, Schimmel & Co, Hamburg
MYRTLE LEAVES—22 bgs, Meer Corp, Hamburg
NAPHTHALENE—500 bgs, Interocean Chemical & Minerals Corp, Hull
NAPHTHOL—20 dms, Nova Chemical Corp, Hamburg
NUTMEGS—126 bgs, Otto Gerdau, Macassar
25 bgs, Wm E Martin, Macassar
327 bgs, George Lueders & Co, Rotterdam
56 bgs, Kellys America Ltd, Rotterdam
OLIVE OIL—175 dms, Manufacturers Trust Co, Seville
25 dms, Bank of Toronto, Seville
375 dms, Hanover Bank, Seville
ORANGE OIL—2 dms, Citrus & Allied Essential Oils Co, Puerto Plata
PALMAROSA OIL—2 pots, K A Export Corp, Bombay
PAPAIN—28 cs, Chas L Huisking & Co, Colombo
24 hf chts, Chas L Huisking & Co, Colombo
PAPRIKA—150 bgs, Schoenfeld & Sons, Rotterdam
600 bgs, M J Golombeck, Hamburg
50 bgs, Pepper Products, Alicante
50 bgs, Knickerbocker Mills, Alicante
200 bgs, A T French Co, Alicante
150 bgs, Hudson Tea & Spice Co, Alicante
300 bgs, International Expediter Co, Alicante
1,000 bgs, C T Wilson, Alicante
400 bgs, National City Bank, Rotterdam
PATCHOULI OIL—5 dms, Manhattan Soap Co, Tandjong Priok
1 cs, Antoine Chiris Co, Penang
PEATMOSS—300 bls, Halfmoon Mfg & Trading Co, Rotterdam
500 bls, Premier Peatmoss Corp, Bremen
500 bls, Premier Peatmoss Corp, Dublin
PEPPER, BLACK—160 bgs, Jacoberg Overseas Inc, Oosthaven
80 bgs, Muttuel Spice Co, Tandjong Priok
80 bgs, J Berlage, Tandjong Priok
240 bgs, Joensson & Cross, Tandjong Priok
160 bgs, M Golodetz, Tandjong Priok
80 bgs, U S & Indonesia Trading Co, Tandjong Priok
3,865 bgs, Internatio Rotterdam, Oosthaven
598 bgs, U S & Indonesia Trading Co, Oosthaven
160 bgs, B C Ireland, Oosthaven
80 bgs, Chemical Bank, Oosthaven
70 bgs, National City Bank, Singapore
70 bgs, East India Trading Co, Singapore
120 bgs, A G Dunn, Oosthaven
320 bgs, J Berlage, Oosthaven
100 bgs, Joensson & Cross, Oosthaven
83 bgs, Otto Gerdau, Oosthaven
80 bgs, International Fertilizer & Chemical Corp, Tandjong Priok
80 bgs, M Golodetz, Oosthaven
80 bgs, Joensson & Cross, Sambas
80 bgs, Catz American Co, Oosthaven
160 bgs, Borneo Sumatra Trading Co, Oosthaven
320 bgs, Mincing Trading Corp, Oosthaven
70 bgs, A C Israel, Singapore
133 bgs, Interocean Corp, Antwerp
200 bgs, Internatio Rotterdam, Djakarta
280 bgs, Singapore
64 bgs, Ludwig Muller, Cochin
80 bgs, Nederlandsche Handel, Cochin
80 bgs, A G Dunn, Cochin
420 bgs, Joensson & Cross, Singapore
42 bgs, Kellys America Ltd, London
WHITE—115 bgs, Internatio Rotterdam, Pangkalpinang
43 bgs, A C Israel, Pangkalpinang
PEPPERMINT OIL—1 dm, River Plate Corp, Rio de Janeiro
PETROLEUM, CRUDE—116,834 bbls, Esso Standard Oil Co, Cartagena
101,754 bbls, Cities Service Oil Co, Amuay Bay
75,123 bbls, Cities Service Oil Co, Tuxpam
107,102 bbls, Esso Standard Oil Co, Amuay Bay
400,000 bbls, Esso Standard Oil Co, Puerto La Cruz
103,656 bbls, Esso Standard Oil Co, Las Piedras
17,999 bbls, Shell Oil Co, Curacao
PIMENTO BERRIES—160 bgs, Kellys American Ltd, Kingston
50 bgs, John Holt & Co, Kingston
300 bgs, M A Porazzi, Alicante
LEAF OIL—4 dms, Norda Essential Oil & Chemical Co, Kingston
2 dms, Fritzsche Bros, Kingston
POLYVINYL ACETATE—20 bbls, Bremen
POTATO STARCH—6,724 bgs, Stein, Hall & Co, Aarhus
PSYLLIUM SEED—444 bgs, T M Duche & Sons, Bombay
90 bgs, S B Penick & Co, Bombay
121 bgs, Meer Corp, Bombay
QUEBRACHO EXTRACT—600 bgs, International Products Corp, Buenos Aires
1,026 bgs, R J Vogel Co, Buenos Aires
56,287 bgs, River Plate Corp, Buenos Aires
61,836 bgs, Hanover Bank, Buenos Aires
QUICKSILVER—100 flks, Virchand Panachand, Bombay
51 flks, G Jimenz, Vera Cruz
100 flks, Metalsalts Corp, Tampico
100 flks, Lo Curto & Funk, Tampico
RAPE SEED—200 bgs, Duryea Seed Co, Rotterdam

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3,300 bgs, Pacific Vegetable Oil Corp, Yokohama
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4,480 bgs, Balfour Guthrie & Co, Manila
2,000 bgs, Thos D Stevenson & Sons, Manila
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CREOSOTE OIL—1,803,509 lbs, Bernuth Lembcke Co, Amsterdam
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IRON OXIDE—40 bgs, L N Butcher & Co, Manchester
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PEPPER—80 bgs, Anglo American Trading Corp, Djkarta
877 bgs, Internatio Rotterdam Corp, Djkarta
QUEBRACHO EXTRACT—407 bgs, International Products Corp, Buenos Aires
SEEDLAC—350 bgs, East Asiatic Trading Co, Bangkok
SHARKLIVER OIL—200 dms, Yokohama
SODIUM BICARBONATE—578 bgs, C M C Chemicals, Manchester
CYANIDE—100 dms, C M C Chemicals Inc, Manchester
SUNFLOWER SEED MEAL—998 bgs, W R Grace & Co, Buenos Aires
TRICHLORETHLENE—100 dms, C M C Chemicals Inc, Manchester
WOOL GREASE—39 dms, N I Malmstrom, Manchester

Philadelphia

BONEMEAL—391 bgs, Kind & Knox, Madras
CARAWAY SEED—50 bgs, R J Spitz, Rotterdam
CASTOR OIL—400 tons, Western Cottonoil Corp, Santos
COCONUT OIL—500 tons, Manhattan Soap Co, Cebu
DICALCIUM PHOSPHATE—5,511 bgs, Corn Exchange Bank, Antwerp
DIVI DIVI—827 bgs, Selma Mercantile Corp, Curacao
GLUE—300 bgs, Fulton Steek Corp, Rotterdam
GYPSUM—6,031 tons, U S Gypsum Co, Hantsport
HORNMEAL—756 bgs, Tupman Thurlow, Buenos Aires
LICORICE ROOT—31,745 bls, McAndrews & Forbes, Basrah
MUSTARD SEED—2,000 bgs, R T French, Rotterdam
300 bgs, London
NIGER SEED—122 bgs, Bombay
PEATMOSS—700 bls, Keer Mauer, Bremen
950 bls, Bank of Manhattan Co, Bremerhaven
700 bls, Rotterdam
PETROLEUM, CRUDE—89,333 bbls, Gulf Oil Corp, Puerto La Cruz
114,616 bbls, Texas Co, Las Piedras
360,350 bbls, Gulf Oil Corp, Mena Al Ahmadi
292,181 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
145,492 bbls, Atlantic Refining Co, Puerto La Cruz
POPPY SEED—100 bgs, R J Spitz, Rotterdam
QUEBRACHO EXTRACT—600 bgs, Bank of London, Buenos Aires
3,553 bgs, Tanimex Corp, Buenos Aires
RUTILE SAND—4,000 bgs, New Castle
WATTLE BARK—350 bls, John Holt & Co, Mossel Bay
WHITING—1,600 bgs, Antwerp
ZIRCON SAND—13,000 bgs, New Castle
5,700 bgs, Brisbane

San Francisco

AMMONIUM CHLORIDE—1,200 bgs, C M C Chemicals, Glasgow
BAUXITE ORE—4,510 tons, Alcoa Mining Co, Paramaribo
CALCIUM CHLORIDE—3,000 bgs, C M C Chemicals, Glasgow
CARDAMOM—3 cs, B C Ireland, San Jose
CASEIN—500 bgs, Pacific National Bank, Sydney
COPRA—500 tons, Pacific Vegetable Oil Corp, Jose Panganiban
500 tons, American Trust Co, Cebu
500 tons, El Dorado Oil Works, Cebu
CAKE—3,200 bgs, Balfour Guthrie, Cebu
MEAL—2,500 bgs, Manila
COTTON LINTERS—16 bls, Bunge Corp, Pisco
29 bls, Bunge Corp, Callao
CREOSOTE OIL—1,860 tons, Bernuth Lembcke Co, Amsterdam
ERGOT—9 bgs, Eli Lilly Co, Yokohama
3 cs, Eli Lilly Co, Yokohama
EUCALYPTUS LEAVES—40 bls, Melbourne
MILK POWDER—2,550 cs, Western Dairy Products, Auckland
NUTMEGS—60 bgs, Internatio Rotterdam, Tandjong Priok
OURICURY WAX—56 bgs, J W Hanson, Bahia
PEPPER, BLACK—62 bgs, Internatio Rotterdam, Tandjong Priok
160 bgs, Borneo Sumatra Trading Co, Tandjong Priok
80 bgs, B C Ireland, Tandjong Priok
80 bgs, Mincing Trading Corp, Tandjong Priok
WHITE—46 bgs, Internatio Rotterdam, Singapore
PETROLEUM, CRUDE—118,575 bbls, Standard Oil Co, Sungai Pakning
QUEBRACHO EXTRACT—1,900 bgs, International Products Corp, Buenos Aires
RUTIN—3 dms, Commercial Banking Co of Sydney, Melbourne
SESAME SEED—100 bgs, Lastrete Phillips, Corinto
50 bgs, B C Ireland, Corinto
50 bgs, McClintock Stern Co, Corinto
SODIUM BICARBONATE—1,200 bgs, C M C Chemicals, Glasgow
TAPIOCA FLOUR—250 bgs, Internatio Rotterdam, Tandjong Priok
ZIRCON SAND—500 bgs, Ferro Corp, Brisbane
90 bgs, H L E Meyer Jr, Sydney

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Textile and Leather Chemicals

Seasonal conditions prevailed in the main in last week's textile and leather chemicals market. Business was quiet, and trading was largely limited to current requirements. With a fair volume of orders already booked for forward delivery, sellers noted continued buying interest in materials to meet early 1953 requirements. Sago flour prices steadied at new higher levels, following recent fractional advances. Egg yolk, though quotationally unchanged, was in an unsettled state in the wake of a recent five-cents-per pound decline. Prices elsewhere in the market were similarly without variance.

Although trading in potato starch fell off because of the holidays, the market tone for this item remained on a firm basis. With Maine mills still shut down and Idaho production at about 50 percent of capacity, domestic starch output continued meager. Spot tapioca flour offerings continued light, holders of light stocks showing preference for regular customers. Corn starch business was curtailed because of the onset of Christmas.

In tanning materials, the yearend lull made itself felt. Interest in quebracho extract slackened due to the holidays, although shipments were maintained. Wattle bark and extract were well held at former levels, with offers for shipment less liberal than heretofore. Consuming inquiry for early 1953 needs of chestnut extract maintained an active pace. Otherwise, conditions were quiet, with shipments continuing at current price levels.

Raw wool consumption on the woolen and worsted systems dropped 1 percent in October to 10,200,000 pounds, scoured basis, weekly, according to the Bureau of Census. Aggregate usage for the first ten months of 1952 was 385,100,000 pounds, 8 percent below consumption for the same period in 1951, while weekly yarn production on the woolen and worsted systems declined 1 percent to 14,400,000 pounds. Total output for the first ten months of this year amounted to 566,100,000 pounds, compared with 603,300,000 pounds during the same time in 1951.

Production of rayon and acetate broad woven goods increased 13 percent in the third quarter to 461,000,000 linear yard, 14 percent above the same period last year. Nylon production dropped 3 percent to 65,000,000 linear yards, but was 83 percent larger than during the same period in 1951.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
101.15	101.15	100.97	101.91

(*For Current Prices see page 9*)

Chemicals

Acetic Anhydride — Conditions in this market remained steady. Business was quiet, which is usual at this season. Interest was quite active for early requirements next year. Quotations were maintained at former levels.

Sodium Hydrosulphite — Business was practically at a standstill last week. Market, however, remained on a steady basis at prevailing prices.

Sizing Materials

Blood Albumin—Market was quiet, but steady. Deliveries against current orders were in good request, while new business was slow. Supplies were ample for prompt shipment. Quotations were maintained at 70c. to 80c. per pound, depending upon quality and quantity.

Corn Dextrin—Consumers limited interest to deliveries against former orders. All grades were well held at prevailing quotations. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79, and white, $8.53, same basis. Less carlots were 15c. per 100 pounds more.

Corn Starch—Business was curtailed as a result of the holiday season. Prices, however, were maintained at current levels. Pearl was held at $7.14 per 100 pounds, paper bags, carlots, New York, and powder, $7.26, same basis.

Final figures released by Department of Agriculture indicated the 1952 corn corp at 3,306,735,000 bushels, the second largest in the nation's history. The 1951 production totaled 2,899,169,000 bushels and the ten-year average (1941-50) is 3,011,652,000 bushels. The yield per acre was indicated at 40.6 bushels, compared with 35.9 bushels in 1951 and 34.7 bushels, the ten-year average. Corn acreage harvested in 1952 totaled 81,359,000 acres, against 80,736,000 acres in 1951 and ten-year average of 86,909,000 acres.

Egg Albumen — Consuming inquiry slackened but the market continued steady. Flake was maintained at $2.61 to $2.63 per pound and powder, $2.65 to $2.67 per pound, depending upon quantity. Prices of technical covered a wide range from $1.01 to $1.10 per pound, according to quality and quantity.

Egg Yolk—Yolk continued unsettled under liberal stocks and light trading. Supplies were offered at 95c. to 97c. per p und, depending upon quantity. Consumers confined demand to small lots for actual needs.

Potato Starch—Trading fell off due to the holiday season, but the tone of the market remained on a firm basis. Danish starch was maintained at 8.60c. per pound, carlots, exdock, duty paid, New York, and 9.10c., Pacific coast delivery. Dutch ranged from 8.85c. to 8.90c. per pound, carlots, exdock, duty paid, New York, as to packing. Imported starch on spot was at 9½c. to 12c. per pound, bags, according to quantity. Mills in Maine have not reopened, while production in Idaho was estimated at about 50 percent of capacity, with the result that recent business has been transacted in imported material.

Rice Starch — Prices were unchanged and steady for supplies on the spot, ranging from 15c. to 17c. per pound, according to quantity. Demand was quiet.

Sago Flour—Reduced stocks on spot and higher cost of replacements resulted in recent fractional advance for spot delivery. Raw was quoted at 7½c. per pound, and refined at 9c. to 9¼c. per pound, on spot, depending upon quantity.

Tapioca Flour—Business continued affected by the limited stocks available on the spot. Holders of light stocks favored regular customers. Prices were nominal at 14c. to 20c. per pound, depending upon buyer, seller and quantity.

Tanning Materials

Chestnut Extract — Consuming inquiry for early next year needs continued active. Market remained firm at unchanged quotations. Extract 25 percent tannin was quoted at 4¼c. per pound, tankcars, f.o.b. works and 5.1c. per pound, barrels, carlots, same basis.

Cutch—Shipments were steady at 8¼c. per pound, exdock, plus duty. Offerings were light.

Mangrove Bark—Business was reported practically at a standstill. Shipments, however, were unchanged and steady for all varieties. Columbian was quoted at $60 per ton, exdock, and Ecuadorian at $57.50 per ton, same basis. African bark was maintained at $79 to $80 per ton, exdock.

Myrobalans — Market was quiet and quotably unchanged. Shipments were well held at former levels. JI's were held at $45 per ton, exdock; assorted at $48 per ton, and crushed, $65 to $66 per ton, same basis. Solid Indian extract, 53 percent tannin was unchanged at 7c. per pound, exdock, plus duty.

Quebracho Extract—Usual slackening of buying interest was noted during the holiday season. Shipments, however, were maintained at current quotations. Solid ordinary was quoted at 11 31/64c. per pound, carlots, exdock, and clarified, 12 3/16c. same basis, plus duty.

Sumac Leaf—In the absence of trading, this market continued nominal at $110 per ton, exdock, for prompt shipment.

Valonia — Trading continued inactive. Shipments were unchanged and fairly steady. Beards were quoted at $85 per ton, exdock and cups at $64 per ton, same basis. Extract was held at 9½c. per pound, exdock, plus duty.

Wattle—A firm tone prevailed in this market. Offers for shipment were not liberal and well held at former levels. Fair average was quoted at $104 per ton, exdock and merchantable, $100 per ton, same basis. South African extract was unchanged at 11⅛c. per pound and East African, 10⅞c. per pound, exdock, plus duty.

For Late Market Developments, See Page 4

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Botanical Drugs, Spices, Gums

Business in the botanical market was transacted mainly from Monday through Wednesday. Thereafter came the Christmas holiday following which numerous companies continued festivities for the balance of the week. Some companies did open on Friday but usually with skeleton staffs insufficient to do much more than take a look at the mails and thereafter serve customers faced with a crisis of one sort or the other. So far as major selling was concerned, the week ended Wednesday noon or early afternoon.

Pricewise, the short week was a period of unimportant developments. In number and degree of change, the weight was overwhelming on the down side and as a result, the last market index for 1952 showed a drop of 0.26 point in reaching 102.45. The index high for the year was 118.56 and prevailed in January. Thereafter, with minor and temporary recoveries, the index trend was downward through the year.

In drug items, Peru balsam showed a further but moderate advance but copaiba balsam and rhattoon Jamaica ginger declined. In flavoring botanicals, Chilean and French marjoram rose slightly while a varied assortment of eleven condimentals sought moderately lower price levels. The balance of both drug and flavoring articles remained unchanged and in the case of the former, held more than reasonable steady to firm.

Considerable uncertainty tinged the guesses of dealers when it came to the probable trend of business after the turn of the year. In medicinal items, the supply situation is set for numerous advances but only if demand rise substantially. And no one last week would be quoted as to probable volume of demand during the first quarter of 1953.

Balsams

Copaiba—Spot prices declined early last week, making the market 90c. to $1.75 per pound, depending on seller and quality and reflecting the curtained buying interest which is not uncommon in the virtually final week of the year.

Peru—The spot market continued to strengthen and advance. Quotations last week were minimum at $1.35 per pound and, according to seller and quality, the range was to $2.

Barks

Black Haw—This article will end the year in very firm spot price position regardless of the fact that demand was apt to continue virtually nil until after the turn of the year at least. Stocks unsold at this time are so inconsiderable in size as to offset the lack of immediate demand.

Elm—A normal amount of buying has been induced by seasonal considerations on the part of those manufacturing products whose sale is largest during the Winter months. Price stability continued and was expected to remain early in the coming year since first costs have curbed a profitable shading of current quotations.

Wild Cherry—The source to this time has coped well with consuming requirements and a fair amount of selling has contributed to the strength that has been based mainly on the cost of the limited collection last season.

Beans

Vanilla—Prices remained steady and seemed to be based on a foundation of considerable strength. No weakness in primary markets has developed nor does it seem a likely development early in the new year. Stocks were conservative in size yet they seemed to meet the current requirements fairly well and are apt to continue in that way unless demand shall expand substantially when consumers are released from the restrictions of inventory and are able to return to the problem of restocking. Since the next crops are almost certain to be relatively small, importers do not look for price waekness developing at the origins.

Flowers

Chamomile—The outlook certainly does not favor lower prices after the turn of the year. Production was moderate in foreign parts with the result that replacement costs show and are likely to continue to display firmness and possible advances. Stocks in this country are moderate and would be insufficient were demand anything like normal.

Clover—No shortage is apt to develop however much demand might increase during the first quarter of the new year. Substantial carryover from the 1951 crop offset the absence of much buying of such new crop goods as might have been available in 1952. A steady, but quiet, market seemed a reasonable expectation.

Gums

Aloe—Reports appeared to indicate that Curacao was either unwilling or unable to offer much gum for export to this country. London complains of the same condition. However, the local market for most varieties of aloe ends the year in reasonably steady if somewhat lower price position than had recently prevailed.

Arabic—The final business week of the year found prices low for the year. Demand was naturally under curtailment and those dealers who desire to improve their inventory position as much as possible might be disposed to shade the general quotation of 14c. per pound for sorts. At least as low as 13¾c. has been done.

Herbs and Leaves

Belladonna—Current quotations at 32c. to 35c. per pound, depending on dealer and test, are the low for the year and conditions at this time do not foreshadow an immediate improvement in spot quotations when the new year begins. Competition remained active and seemed likely to continue.

Digitalis—Stocks have met requirements very well thus far this year. The principal manufacturing consumers have been well covered by contract and those who have not contracted have been able thus far to fill their needs promptly. Prices were very steady in the final week of the year.

Passion Flower—From what can be known at this time, the moderate unsold stock of this article seemed likely to be sufficient to cover probable requirements until another crop has been gathered. Also, dealers did not look for price weakness, come the turn of the year.

Miscellaneous

Ergot—Some reports said that replacement prices in Portugal had dropped moderately during the past fortnight or two. Locally, the quotations have not worked any lower nor did most dealers last week expect the market to go much if any under $2.50 per pound. However, it is possible to recall the time when $1.35 per pound

Price Trends

Advanced

Drugs

Peru balsam, 5c. per lb.

Other Articles

Marjoram, Chilean, 2c. per lb.
French, ½c. per lb.
Pepper, black, Malabar, 1c. per lb.

Reduced

Drugs

Copaiba balsam, 5c. per lb.
Ginger root, Jamaica, rhattoon, 1c. per lb.

Other Articles

Anise seed, Balkan, ¾c. per lb.
Celery seed, Indian, 1c. per lb.
Cumin seed, Iranian, ¼c. per lb.
Fennel seed, Czech, dark, ½c. per lb.
Marjoram, Peruvian, 2c. per lb.
Nutmegs, West Indian, ½c. per lb.
Pepper, red, Zanzibar, ½c. per lb.
Poppy seed, Dutch, ¼c. per lb.
Saffron, European, 50c. per lb.
Sage, Italian, officinalis, 2c. per lb.
Syrian, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
102.45	102.71	103.72	117.97

(*For Current Prices see page 9*)

Imports Detained by FDA

Week Ended Dec. 19

New York

Cassia, 6 lots, 318 bales' insect filth.
Chillies, 4 lots, 215 bags: filthy.
Henbane leaves, 34 bales: filthy.
Manna flake, 20 cases: live insects.
Mannite loaves, 6 cases: no English label; no net weight; no adequate directions for use; no common name of product.
Olive oil, 134 drums: fire damaged.
Origanum leaves, 154 bags: filthy.
Pepper, black, 7 lots, 433 bags: moldy and insect bored.
Rosemary leaves, 80 bales: filthy.
Sage leaves, 26 bales: filthy.
Sesame seed, 4 lots, 1,335 bags: filthy.

For Late Market Developments, See Page 4

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for ergot at this time of the year was considered a satisfactory price.

Grains of Paradise—There is not much material available on spot but some factors intimated that replenishment of stocks would come early in the new year. The market was nominal at 34c. per pound.

Roots

Blackberry—The under-collection last year has yet to develop its natural reaction. While stocks are low at the year-end, so was demand and at the moment nothing suggests a substantial expansion in the requirements of manufacturing consumers. Quotations were very firm at 15c. to 16c. per pound.

Echinacea—At the moment, it seems certain that shortage is inevitable until another season may make replacements available. The nominal quotation at the end of the year was 90c. per pound, quoted without offer and subject to confirmation should firm orders develop.

Ginseng—Demand has not been very active during the past several weeks but most factors in the item expect that it will revive, even though conservatively, during the first quarter of the new year. Prices showed substantial strength last week and did not appear to be subject to shading.

Ipecac—Reports from foreign parts indicated that shipment quotations had strengthened because of the fact that stocks in some countries had been substantially reduced and compelled importers to enter the primary market to restore their local holdings. On spot, a fair sized supply was held at prices showing a firmer but not higher position.

Seeds

Anise—Seed originating at a Balkan point became more competitive locally during the past week and quotations were lowered to the basis of 12½c. to 13c. per pound. Other kinds of this seed lacked change and the Cyprus and China materials were strictly nominal.

Celery—Indian seed weakened and at the close of last week stood lower at 27c. to 27½c. per pound. French seed remained fairly steady at 37c. to 37½c.

Cumin—Iranian seed yielded a small fraction of its previous price, ending the past week at 14¾c. to 15c. per pound. Turkish seed was available for ¼c. per pound less, and Moroccan and Syrian seed remained strictly nominal at unchanged quotations.

Fennel—Dark Czech seed was shaded to 19½c. to 20c. per pound. Other quotations were mainly nominal.

Poppy—Except for ¼c. decline to 16½c. to 16¾c. per pound for Dutch seed, the last week of the year was uneventful.

Spices

Clove—The decline in shipment quotations from the origin was followed by a rise that came when reports suggested that Indonesia would return to buying in the not distant future. The interim crop is now estimated at probably under 1,500 tons. Spot prices remained unchanged but were firmer.

Ginger—Because buyers continued to show little interest in this item, its market remained soft during the final week of the year. However, at present low levels, it would be unlikely if sellers shaded spot quotations more than a very small fraction. The future of this item seemed bound up in the size of the next important crop.

Peper—Black pepper passed through a comparatively dull week. Spot sales usually took place at $1.38 to $1.39 per pound but 1c. less was believed to be possible with firm business in hand. In red pepper. Turkish chillies now afloat were lower at 35c. to 35½c. per pound and Zanzibars were shaded a fraction to 43c. Other kinds remained unchanged and the market as a whole had little weaknes, actual or prospective. Some improvement in demand for white pepper was reported but the selling was mainly at unchanged prices, noted at $1.48.

Friday quotations on black pepper were as follows:—Malabar, spot, $1.38 to $1.39 per pound; Lampong, afloat, $1.34; Malabar, December shipment, $1.27; January shipment, $1.23 to $1.24; January arrival, $1.27.

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Essential Oils, Other Aromatics

All price movements in the essential oils and aromatic chemicals were downward last week. Among the aromatic chemicals, amyl salicylate was off 2 cents per pound and benzyl benzoate declined 8 cents per pound.

Essential oils which were reduced in price during the week were not too many, but included bergamot, which dropped $1 per pound. Bois de Rose and petitgrain were both off 15 cents per pound from former levels. Caraway dropped 25 cents, and eucalyptus fell 10 cents. This lowered the index 0.11 point.

Trading at the year-end was subject to the usual seasonal lack of buying interest, but was expected to show some improvement early in the new year. Added to the reasoning of dealers that better business would be seen in the first quarter of next year, was the known fact of quite low consumer inventories, which with the start of the new year would soon require replacement.

Most aromatic chemicals were in a quite adequate supply, and ended the year in a relatively firm price position. Not many adjustments were expected at the new year.

Oils which are imported from communist China were exceedingly scarce because not only had direct shipment been cut off, but trans-shipment through other countries had likewise been banned.

Garlic oil was also a particularly short item due to lack of imports. Lemongrass oil was in a strong market position, and the feeling was general that the current higher price levels were a good thing because it encouraged increased planting and production, which would give industrial consumers an adequate source of supply in the months ahead.

The price structure on artificial bergamot was steady and not at all influenced by the fluctuations of the natural oil. The Italian oil of bergamot declined last week in a softer market, but some quarters felt that it might not go much further.

Rosewood oil was weak, cedarwood oil was steady, and rose oil was about in balance with demand. The demand for rose oil being limited, trading at currently high prices was not very active. Both white and sassafrassy camphor oils were in ample supply under a firm price structure.

Price Trends

Advanced

None

Reduced

Amyl salicylate, 2c. per lb.
Benzyl benzoate, 8c. per lb.
Oil, bergamot, $1 per lb.
Bois de rose, 15c. per lb.
Caraway, 25c. per lb.
Eucalyptus, 10c. per lb.
Petitgrain, 15c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
168.99	169.10	166.57	180.76

(For Current Prices see Page 9)

Essential Oils

Anise—While prices maintained former levels, the general price pattern tended to range mostly from $2.25 to $2.50 in most sales channels. The market was reported as not being particularly active at the year-end, not because there was no demand but because there was almost no oil for active trading. Curtailment of supplies arising from restrictions affecting shipments either direct or indirectly from China, has essentially deleted most stocks.

Bay—The 50 to 55 percent NF material was unchanged last week, being quoted by various sellers at from $1.50 up to $1.90 per pound, depending upon source, quantity, and seller.

Bergamot—The natural oil of Italian source declined $1 per pound in some quarters last week, which brought the range of quotations between various sellers to $11.75 to $14.50 per pound. As yet the full effect of lower floor prices abroad was not reflected in the spot market, because of high cost material on hand which must be disposed of in advance of lower cost replacements, so far as that is feasible. Some downward adjustments were accordingly looked for in the weeks immediately ahead, and upon the arrival on new crop oil upon the market. Fluctuations in the natural oil market had no effect whatever upon the steady price position of the artificial oil.

Bois de Rose—Brazilian material was quoted 15 cents per pound lower last week, as the market weakened and prices in some quarters fell to $3.35 per pound. This brought current quotations to a level of $3.35 to $4.60 per pound depending upon quantity and seller.

Camphor—White and sassafrassy were amply available at prices upwards of 26 cents per pound, and the feeling at the year-end was that the new year would see a steady price structure for several weeks.

Caraway—Reflecting the current weakness in the market, prices declined in some quarters by 25 cents per pound. This brought the present price range to $3.00 to $3.75 per pound. Year-end demand was said to be slow, but it was hoped that the first quarter would see more active interest.

Cedarwood—The market on this item was steady and no change in price was expected at the new year. Demand was felt to be better in recent months than it had been, but naturally slid off a bit during the holiday season.

Cassia—This oil was indeed in a critical supply position by reason of the cutting off of shipments from communist sources. Hence replacement of inventories was virtually impossible, and consumers had no recourse but to shift to whatever substitutes they could work out.

Dillweed—Until the arrival of new crop oil, the supply of this oil was expected to remain on the short side. However, inquiry for the item at the year-end was not too active, and prices held to their firm tone. No change in price patterns was expected in the immediate future.

Eucalyptus—The NF 80 to 85 percent grade declined 10 cents per pound last week, while the 70 to 75 percent material remained unchanged. The market was described as a bit soft on the rectified higher percentage material, but most sellers felt that this development was nothing serious.

Garlic—The tight supply position of this oil remained unchanged from what it had been over recent weeks. There was not enough material to go around, and dealers were inclined to distribute what little was available as equitably as possible among consumers.

Geranium— Prices ranged on Bourbon from $12.00 to $16.50 per pound, following a price reduction in some quarters of 50 cents per pound. Algerian was unchanged at $12.25 to $16.50 per pound.

Guaiacwood—This oil was quoted firmly in all quarters, which kept currant listings at a range of $1.65 to $1.90 per pound.

Lavender—The high ester oil ranged in price between different sellers at levels of from $6.00 to $6.75 per pound while the low ester oil was priced from $3.10 to $4.75.

The Spanish spike oil was unchanged in price last week, although there was a definite potential in the market for an upward adjustment in prices, based on replacement costs, due to a strengthening in primary markets. Demand was said to be strong, and likely to continue well into the new year.

Lavandin—Dealers reported the present inventory position as probably quite ample to carry the consuming industry over until the new crop comes in. Prices were firm and unchanged at the year-end, and were expected to continue at current levels into the new year.

Lemon—Prices in the market on California oil ranged from $5.65 to $6.00 per pound depending upon grade and seller. Messina oil was unchanged at the wide range in prices recently characterizing the market. Material of various quality could be had anywhere from $5.75 to $9.50 per pound. While there was plenty of Italian oil available, the better grades were not so easy to obtain.

Lemongrass—Demand for this oil as a starting material for the manufacture of certain aromatic chemicals was well sustained, with the result that the market was relatively free from low priced material, and this lent strength to the present price position. There was talk of some upward adjustment of prices, but it did not materialize as of last week.

Both industrial consumers as well as sellers of the oil felt better about the stronger tone of the market over recent weeks, because a sustained higher price structure would encourage planting and production, lending more assurance to a satisfactory supply.

Lime—There was no further price change in distilled West Indian, following that which occurred earlier in the month. Mexican oil was also firm, and no change at the new year was expected. West Indian

For Late Market Developments, See Page 4

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oil was priced upwards of $7.00 per pound for the distilled and $7.85 for the expressed, while the Mexican moved at $6.00 and up.

Mandarin—Italian was weaker in spots, and could be had for $6 to $12 per pound. Demand at the year-end could hardly be described as more than fair. Supplies were adequate.

Florida oil, on the other hand, strengthened in some quarters, advancing some 55 cents per pound. Not all sellers followed this move, however, so that the price pattern ranged from $5.00 to $5.90 per pound. The demand for Florida oil was said to be significantly better at the year-end than it had been earlier in the year.

Neroli—The NF material from France was quoted from $216 to $275 per pound. Petale prices were unchanged. Demand was limited.

Nutmeg—The price schedules on both the East Indian and the West Indian oil were unchanged last week. The lowest quotations on East Indian stood at $2.35 per pound, and on the West Indian at $2.95. However, most trading on both oils was reportedly done in the general price area of $3.40 to $3.50 per pound. Supplies were regarded as quite ample against moderate demand.

Ocotea Cymbarum—Prices on this item ranged from 58 cents to $1.00 per pound in the current market, after a 4 cent drop in some sellers schedules. The market was relatively steady without any unusual developments during the week.

Orange—California oil was quoted firmly last week, while Florida oil held to former schedules. Messina and West Indian were unchanged, but in these oils trading was not one of very active interest. However, the feeling was expressed that the market was not as weak as some buyers expected on domestic oils. Rumors of a softening tendency appeared to be unfounded.

Patchouli—Drum prices ranged from $6.95 to $8.75 per pound last week, holding firmly to levels which had formerly prevailed. These prices were felt likely to hold for the immediate future.

Peppermint—Both the natural and the redistilled were firm last week in the quotations of all sellers. While this might seem to indicate a steady market, it was said that high quality oil was still not too ease to obtain. Prices on natural ranged from $5.50 to $7.25 per pound, and prices on the redistilled USP product from $5.75 to $8.25 per pound.

Petitgrain—A decline of 15 cents per pound was noted in several quarters, but not all, during last week. The weaker tone in the market at the year-end brought the range of current prices to $2.35 to $3.10 per pound, for the South American material.

Rose—Prices ranged from $50.00 to $62.50 per ounce on Bulgarian material. The result was that trading was confined to immediate needs only, and volume was said to be light.

Sassafras—The natural held firmly to the $1.90 price level, while the synthetic settled down at levels of 50 cents per pound and upward, following the decline in the market in early December. Supplies were reported as abundant, against moderate demand.

Snakeroot—Following the reduction in price occasioned by the appearance on the market of new crop oil, a firmer tone in prices was expected for the weeks immediately ahead. Demand was characteristically small, and the new price of $30 per pound was likely to hold. Supplies were felt to be adequate.

Spearmint—There was a firmer tone noted in this market in some sections, while other sections continued relatively steady. Prices were listed in the range of $7.75 to $9.00 per pound, depending upon quality and seller.

Wintergreen — Prices on this item ranged upward from $3.26 per pound on the Southern and $7.15 on the Northern. Demand was limited, but oil of good quality was said to be scarce. The synthetic oil, methyl salicylate, was firm in price at 50 cents per pound in lots of 500 pounds or more, and moved in good volume.

Wormwood—Demand for the product was said to be relatively light, and a fair buying interest was not expected until after the new year. However, price schedules were firm at the year-end.

Aromatic Chemicals

Amyl Salicylate—Prices quoted by some producers were 2 cents per pound lower than former schedules. This brought current selling prices to a range of 75 to 95 cents per pound. Supplies were regarded as adequate for all consumer requirements.

Benzyl Benzoate—This item dropped 8 cents per pound in some quarters in a price move that was competitive and reflected the soft tone of the market at the year-end. The price reduction was made at a time when basic raw material costs were on the increase, but intermediate costs were somewhat lower.

Ionones—The price pattern on these aromatics, having undergone some recent changes, were felt to be fairly well stabilized at the year-end because of the firm tone assumed by the lemongrass oil market.

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Protective Coatings Materials

The only price changes which were effective last week in this market were advances in lead oxides and red vermilion quicksilver. An increase in pig lead was reflected in red lead, lead monosilicate, litharge, and orange mineral.

Producers of the iron blues have announced a scheduled increase for iron blues. Some sources were said to be making the new price effective January 1, and others were waiting until January 15. The material was still being sold at the old level until the change becomes effective. Many producers also announced an increase of 3 cents per pound in red lithol toner schedules effective January 1. Lead pigments have been moving fairly well. There were no changes announced in these pigments' schedules when lead metal went up. It was reported that the pigments did not go up during the last raises, except for the oxides. However, the current schedules were figured on a basis of 14-cent pig lead and this advance brought pig up one-quarter cent higher. It was not certain whether there would be a change in the pigments or not. Zinc pigments were still reported to be moving very well. Producers said that these pigments were a little firmer pricewise, with the last increase in lead metal. Demand has held to high levels, and suppliers expected the activity to keep on for a while.

There were no further changes in the price schedules of the synthetics reported last week. Most of the resins continued to move along quite well. Producers felt that the current levels of activity would be sustained for the first part of next year. Alkyds have been moving very well. Recent adjustments in the costs of raw materials have been applied to alkyds. However, there were no further developments along that line. Maleics have been moving well, as have melamines and urea-formaldehydes.

Tricresyl phosphate has been held up fairly well, a source stated. However, nothing spectacular in the way of increased demand was expected to develop soon. The market for the gums was fairly active with orders for delivery after January 1. Consumers have kept inventories at bottom and will have to build up a bit after inventory period is over with, it was said. The shellac market was steady pricewise. However, there was just a moderate amount of business. Some sources said that it was surprising just how much action there was, when one considered the season.

The casein market was rather quiet last week. Prices held. The new support prices for rosin and turpentine have been announced.

Prime Pigments

Iron Blues—These pigments were expected to advance early in January. Some producers announced that the change would become effective January 15, and others said that January 1 would be the date. No matter what date, most producers agreed that the increase would be about 5¼c. making the new price 45c. per pound.

A source added that imported English blues were presently selling at 39c. However, a change in schedules might be forthcoming at the time of the other raises. It was felt that the differential which has existed between imported and domestic blues will be even greater after the advances.

Lead, Monosilicate — Increased metal prices were reflected in a ¼c. increase in these prices, making less than carlots 16.35c. per pound. Carlots advanced 0.24c. to 15.36c. per pound.

Lead Pigments—There has been no change in this market. Producers reported that the material was still moving. Activity has been a little better than it had been earlier in the year. Producers have not changed the price schedule of the majority of these pigments even though lead metal went up ¼c. The oxides, went up with lead, as they normally do. One source added that the schedules for pigments had been calculated on the basis of 14c. per pound pig. Now that pig was up to 14¼c., it was not a certainty that the pigment prices would stand still.

Lead, Red—Price schedules of this oxide were advanced ¼c. per pound last week along with the boost in pig lead. The material which is 95 percent Pb_3O_4 was currently selling for 17c. per pound in carlots, and 18c. per pound in less than carlots. The 97 percent material was 17¼c. per pound in carlots, and 18¼c. per pound in less than carlots. And 98 percent oxide was 17½c. per pound, and 18½c. per pound in less than carlots.

Litharge—The ¼c. increase in lead metal was reflected by a similar advance in litharge prices. Current quotations were 16c. per pound in carlots, and 17c. per pound in less than carlots.

Orange Mineral—The price of this oxide was increased ¼c. per pound, along with the advance in metal schedules. New quotations were at 20.35c. per pound for less than carlots.

Red, Lithol, Toner—Producers of this pigment have announced an increase of 3c. per pound scheduled for early in January. The change in prices will bring a new quotation of 79c. per pound.

Red, Vermilion, Quicksilver—Prices of this pigment were advanced 4c. per pound early last week. Current quotations are $5.90 per pound.

Zinc Pigments—These materials were going very well, a source reported. Demand has been sustained at a good level. Prices have kept to their previously established levels. It was said that the recent increase in lead metal has brought some additional firmness to this market.

Synthetic Resins

The United Kingdom expanded its exports of plastic products to Commonwealth countries in 1951, a report from the Department of Commerce said.

Australia was the best consumer, but shipments to India, South Africa, and New Zealand increased sharply. The Netherlands replaced Denmark as the leading foreign market, and exports to most European countries were higher.

Imports of plastic materials into the UK increased about 35 percent in 1951 from those of 1950, mostly because larger amounts of synthetic resins, notably vinyl resins, were brought in.

Alkyds—Producers reported that these synthetics were moving very well. Demand has been strong and suppliers felt that it would be sustained for quite a while. There were no more price revisions reported since the previous announcements of advances to cover increased costs of soybeans and glycerin.

Maleics — These resins have also been moving at an adequate pace. Demand has been rather good from the furniture business, a source said. Prices have pretty well kept to the levels established earlier.

There was some softening noticed in this market during the last few weeks of this year. However, producers were confident that this was merely a move on the part of consumers to cut inventories to their lowest workable point before the end of the year. Buying was expected to come back to the same levels right after the beginning of the year.

Melamines—There has been no significant change in this market. Producers were moving the material along fairly well. Prices have not changed in the past week. Consumers did not find it difficult to obtain enough material to accommodate their needs.

Phenolics—The market for these resins has continued to show good activity. Producers were moving their output right along. Prices have held to their established levels. Supplies of most of these

Price Trends

Advanced

Lead, monosilicate, 0.24c. per lb.
red, 95%, ¼c. per lb.
97%, ¼c. per lb.
98%, ¼c. per lb.
Litharge, ¼c. per lb.
Orange mineral, ¼c. per lb.
Red, vermilion, quicksilver, 4c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 28, 1951
88.44	88.44	88.44	101.19

(For Current Prices see Page 9)

Protective Coatings Shipments

The following table from the Bureau of Census indicates total factory shipments of paint, varnish, and lacquer in October as compared with September:—

	October	September
Total sales	$119,943,000	$117,831,000
Trade sales of paint, varnish and lacquer	71,457,000	73,568,000
Industrial sales, total	48,486,000	44,263,000
Paint and varnish	36,583,000	33,214,000
Lacquer	11,903,000	11,046,000

*Revised

For Late Market Developments, See Page 4

Stearates

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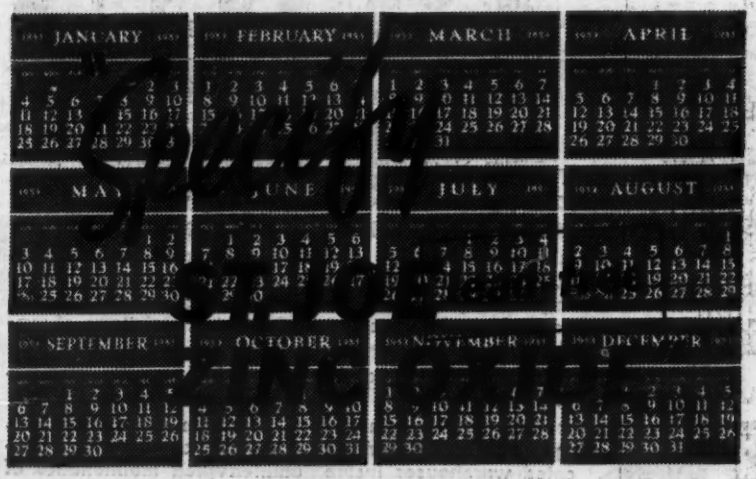

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synthetics were adequate for consumer needs. The particular sore spot in the supply picture was still paraphenyl phenol derived resins, which have been under heavy demand for government uses.

Urea-Formaldehydes—Both surface coatings and adhesives have kept the demand for these synthetics up to a fairly good level. Some of the buying during the past several weeks was felt to be an attempt on the part of consumers to cover themselves before the announced price increase which becomes effective January 1, for most producers. Supplies were adequate for the current levels of buying.

Lacquer Materials

Dibutyl Phthalate—According to a production report received from the Tariff Commission, September output of this plasticizer was 1,410,240 pounds, compared with August production of 1,233,583 pounds.

Tricresyl Phosphate—Demand for this material has held up fairly well. Producers reported that the market was strong. Prices have held to their previously established levels. No changes were anticipated at this time. Supplies were adequate for the current needs of consumers.

Naval Stores

The government announced new support prices for rosin and turpentine. The price on turpentine being 50c., and schedules for WW, and WG being $7.49. I through N, becomes $7.39. There were no prices below I, it was said.

Dipentene—November output was 3,360 50-gallon barrels, compared with October output of 3,230 barrels, and November, 1951 production of 2,840 barrels, according to the Bureau of Agricultural Economics.

Pine Oil—Production during November totaled 12,260 50-gallon garrels, according to information from the Bureau of Agricultural Economics. In comparison, output in October was 12,720 barrels, and production in November of last year was 14,310 barrels.

Pinetar — November output was 7,950 50-gallon barrels, compared with 7,840 barrels in October, and 10,540 barrels in November, 1951, according to Bureau of Agricultural Economics information.

Rosin—Total production of gum and wood rosin was 150,030 520-lb. drums in September, compared with October output of 146,530 drums, and 178,150 drums produced in November, 1951, the Bureau of Agricultural Economics reported.

Turpentine—November output of gum and wood totaled 44,560 50-gallon barrels, according to the Bureau of Agricultural Economics. In comparison, October production was 47,390 barrels, and output in November, 1951, was 55,840 barrels.

Rosin, Gum
(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	Thur.‡
F	...	...	7.35*	...	...
H	...	...	7.35*	...	...
K	7.10*	...	...	7.35‡	...
M	...	7.20*	...	7.31*‡	...
N	...	6.85*	7.25‡	7.35‡	...
WG	...	...	7.45‡	7.58*	...
WW, X	...	...	7.61*‡	7.77*‡	...
Sales, USDA		277*	780*	1,015*	...
Savannah Exchange (per 100 lbs., dms.)					
Receipts	105	4	179	...	...
Shipments	...	310	100	...	...
Stocks	10,202	9,896	9,975	...	...

Rosin, Wood
(USDA, per 100 lbs.)

FF	4.31*x	...	4.15†x	...

Turpentine, Gum
(USDA, per gal., 7.2 lbs.)

Price	...	.515†	.52†	.52†
Sales	...	8,000‡	24,000‡	8,000‡
Savannah Exchange (dms.)				
Receipts	160	94	77	...
Shipments	71	73	1	...
Stocks	1,703	1,724	1,800	...

Turpentine, Wood, Steam Distilled
(USDA, per 7-lb. unit)

	.58*x	...	.44†x	...

*Drums, †Tankcars, ‡Bags, ¶Carlots, §Gallons, xNet price, ‖Holiday.

Natural Resins

There was no particular change in the market for the gums. One source said that buying was not too bad during the past few weeks. Although there was very little material being sold for immediate deliveries, there were enough orders for quick deliveries right after the first of the year to encourage importers in this market. The prospects for next year were pretty good, one importer felt. Currently consumers stocks are quite low and increases of their needs for production are immediately reflected in the buying pattern of the market. Prices have held to their old levels.

Shellac—Importers said that this material was moving along quietly. Prices remained at their old levels, although the Calcutta market has shown some additional firmness. One source stated that business was pretty good for this time of year. A pickup in buying levels was anticipated after the beginning of next year.

Miscellaneous Materials

Casein—There was no great change in this market. However, one source said that the Argentine market was a trifle firmer. Even though Argentina is currently well stocked with material, it was said, sellers are not letting material go below 12½c., which indicated that they might be thinking that the market was going to firm up. Current quotations here for Argentine spot material were between 19½c. and 21c. per pound. However, there weren't too many importers around who still had some of their import quotas left. Importers felt that there would not be too much change in the situation until licenses for import quotas were available again. And when that would happen no one knew for sure.

N. Y. Paint Technicians Meeting Set for Jan. 8

The New York Paint and Varnish Production Club will hold its first regular meeting of the year January 8 at 2 Park avenue. Clovis H. Adams, chief of the mineral products laboratory of the auxiliaries research department of the Sherwin-Williams Company, will be the guest speaker. His topic will be "A New and More Efficient Type of Leaded Zinc Oxide Pigment for Use in House Paints."

Davison Names Miller Co. Agent

The L. A. Miller Company, Louisville, Ky., has been appointed by the Davison Chemical Corporation, Baltimore, Md., as manufacturer's agent for the sale of "Syloid 308" and associated products in the areas around Louisville and Evansville, Ind. "Syloid 308" is a flatting agent for lacquers, to subdue the gloss and give a hand-rubbed finish effect to furniture.

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Acetate Dyes Additions Reported by Tenn. Eastman

The Tennessee Eastman Company, Kingsport, Tenn., has announced the availability of several newly developed acetate dyes.

"Eastman Fast Yellow 2R-GLF" is a bright golden yellow reportedly having exceptional fastness to atmospheric gas fading, light, washing, sublimation and perspiration. It is said that the slower exhaust rate of this dye makes it a valuable component with other dyes of the GLF series when an on-tone build-up is desirable. The material may be used in dyeing draperies and other fabrics where extreme fastness to light is required, and it is reported to have very good fastness to light on pastel shades. It is not dischargeable.

"Eastman Diazo Navy Blue RB" is a dispersed acetate dye which, when diazotized and developed with betaoxynapthoic acid, gives excellent shades of navy blue which are reported to have excellent fastness to light, washing, perspiration and sublimation. Even when using increased amounts of dye shades of black on blends of acetate and viscose, the item is said to reserve the viscose and eliminate clearing that is normally required.

"Eastman Printing Blue 2B" is an anthraquinone type dye especially recommended for application printing of acetate fabrics because of the reported excellent dispersibility, excellent resistance to sublimation and very good fastness to wet processing. It is said to produce a clear, bright blue which fixes easily on steaming. The light fastness is reportedly very good in medium and heavy shades of blue on acetate.

Sun Chemical Reports New Division Formation

Sun Chemical Corporation, Long Island City, N. Y., has announced the formation of a new division, the Sun Supply Company. Under the management of Jack Mather, and with headquarters in Long Island City, the company will sell and service supplies for all branches of the graphic arts.

Products of the Sun Supply Company will be distributed directly, as well as through the following divisions:—American Printing Ink Company, Chemical Color & Supply Company, Eagle Printing Ink Company, Fuchs & Lang Manufacturing Company, General Printing Ink Company, E. J. Kelly Company, Geo. H. Morrill Company, and the Sigmund Ullman Company.

Mr. Mather was previously superintendent of Sun's factories in Norwood, Mass., and Clearing, Ill. During the past four years he had been New England district manager in charge of sales and service for the Geo. H. Morrill Co.

Jesse Gibson Naval Stores Veteran, Retiring Wednesday

Jesse Gibson, one of the founders of the wood naval stores industry and a veteran of thirty-seven years' service with Hercules Powder Company, Wilmington, Del., will retire Wednesday, the company has announced.

Mr. Gibson joined the sales department of the original Yaryan Naval Stores Company, Brunswick, Ga., in 1912, and has been continuously engaged in marketing wood naval stores as the business was bought successively by the Yaryan Rosin & Turpentine Company in 1916, and by Hercules in 1920.

Hardwood Plywood Price Controls Get Suspension

The Office of Price Stabilization has announced that price controls have been suspended on manufacturers' sales of hardwood plywood, produced east of the 105th meridian. The suspension is provided in supplementary regulation 129 to the General Ceiling Price Regulation, and is effective December 18. The action is in conformity with OPS suspension standards. Prices are substantially below ceilings and it is believed they are not likely to return to ceilings soon.

Osborn Names Eltex Agent

The C. J. Osborn Company, New York, has named the Eltex Chemical Company, Houston, Tex., its agent for the state of Texas in the sale of Osborn's synthetic resins and pigments. Eltex is operated by A. M. Russell, formerly owner of the Russell-Hale Chemical Company, of Houston and New Orleans, La. Associated with Mr. Russell is Samuel L. Bishkin, who for the past fifteen years was head of the paint department of the Humble Oil & Refining Company.

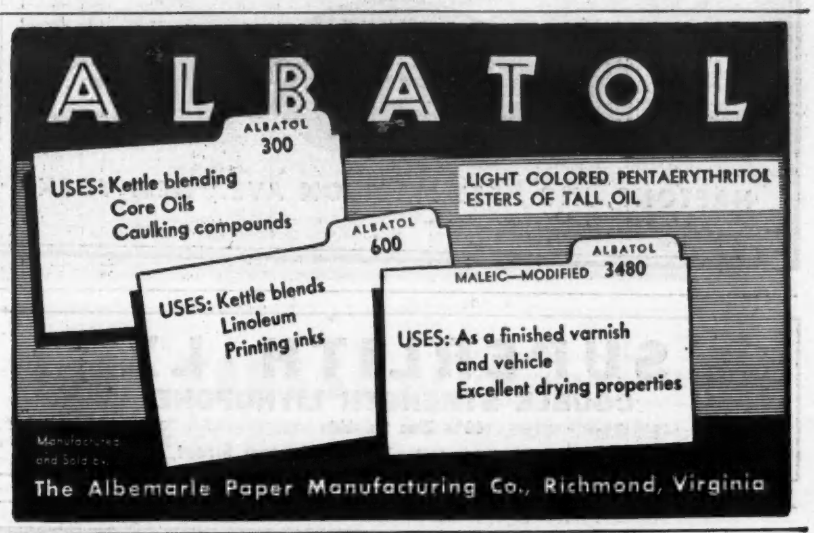
Martin-Senour Anniversary Celebration to Open Jan. 9

The Martin-Senour Company will open a year-long celebration of its seventy-fifth anniversary with a diamond jubilee dinner at the Palmer House in Chicago on January 9.

Three employees will be given gold watches and awards for a quarter of a century service with the company. They are:—H. A. Butt, Florida sales representative; C. J. Filipkowski, office manager of the New York office; and Sigmund Jezior, factory foreman.

Curley Co. Names Riker

Harold S. Riker has been appointed general manager of the contract packaging and manufacturing division of the Curley Company, Philadelphia. Mr. Riker was former district manager of the Commercial Solvents Corporation.



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Chemicals Exports Higher In October; Imports Down

October exports of chemicals and related products rose slightly over those of September, while imports registered a moderate decline, according to the latest estimates of the Bureau of Census.

Exports were estimated by the bureau at $61,700,000 as compared with $60,900,000 for September. Imports were valued at $20,800,000 in October as compared with $21,300,000 in September.

The pattern of trade in chemicals and related products was the reverse of that for all merchandise. The bureau said that general imports increased from $877,400,000 in September to $917,600,000 in October, but exports declined from $1,218,500,000 to $1,191,000,000.

From September to October, imports of metals and manufactures, except machinery and vehicles, rose from $172,400,000 to $190,500,000. This increase was due largely to increased import of tin ore, lead pigs and bars, and quicksilver. Meanwhile, the advance in imports of textile fibers and manufactures from $72,600,000 to $89,900,000 was primarily the result of increases in imports of sizal and henequin and unmanufactured wool. Imports of nonmetallic minerals climbed from $86,500,000 in September to $101,100,000 in October, principally as a result of higher imports of diamonds, petroleum, and petroleum products. Imports of machinery and vehicles rose from $23,800,000 to $31,000,000. However, during the period, imports of vegetable food products and beverages declined from $241,800,000 to $212,200,000. This decline was due chiefly to decreases in imports of sugar, raw or green coffee and cocoa beans.

From September to October, exports of machinery and vehicles decreased from $386,400,000 to $376,200,000. During the same period, exports of nonmetallic minerals declined from $123,100,000 to $117,800,000, principally as a result of decreased exports of coal. However, exports of vegetable food products and beverages advanced from $117,500,000 in September to $140,100,000 in October. This increase was due primarily to increased exports of corn, barley and wheat. The rise in exports of textile fibers and manufactures from $103,000,000 to $121,900,000 was largely as a result of increased exports of raw cotton. During the same period, the rise in exports of metals and manufactures, except machinery and vehicles, from $102,500,000 to $111,600,000 was due primarily to higher exports of steel mill products.

Copper Raw Materials Order for Brokers Eased

Brokers engaged in transactions involving copper raw materials and scrap no longer are required to report end-of-month inventories or purchases and sales, as required of scrap dealers, the National Production Authority has announced.

NPA officials said Order M-16 has been amended to eliminate this requirement. It still remains in effect with respect to any scrap dealer whose aggregate end-of-month inventory, or monthly purchases or sales, averaged 60,000 pounds or more (metal weight) during the first six months of 1952. Dealers are required to submit reports on such transactions on Form NPAF-125 not later than February 10, with regard to January, 1953, operations and thereafter not later than the 10th day of each calendar month, with regard to their operations during each preceding month. The reports must be addressed to the base metals branch, Bureau of Mines, Department of the Interior, Washington, D. C.

Tin Mill Products Off Controlled Materials List

The National Production Authority last week removed specified secondary tin mill products from the controlled materials category in order to stimulate the purchase of these products, which are now in adequate supply.

Affected by the action were the following:—Mill accumulation plate, unassorted tempered tin plate, unmended menders, waste-waste, and other coated secondaries defined in order M-24; and blackplate rejects, blackplate wasters, and blackplate waste-waste as defined in M-25.

Nat'l Gypsum Dealer Sales Posts to Brown, Hildinger

The board of directors of National Gypsum Company, Buffalo, N. Y., has announced the election of John W. Brown to the position of vice-president in charge of dealer sales. Wade W. Hildinger has been named general sales manager of dealer sales.

O'Brien Corp. Controller

John T. Harvey has been appointed controller of the O'Brien Corporation, South Bend, Ind. Oren A. Fulkerson, who will complete fifty years service with the corporation next spring, has delegated certain of his responsibilities to Mr. Harvey. The new controller will assume complete responsibility for general accounting, office management and certain other functions.

Solvent Stocks Established By Moore in Two Cities

John B. Moore, president of the John B. Moore Corporation, Nutley, N. J., has announced that stocks of the company's safety solvents have been installed in Pittsburgh, Pa., and Detroit, Mich. Production is at Clifton, N. J.

The company has also announced the appointment of the following representatives:—Norman M. Gottfried, of Pittsburgh, for western Pennsylvania, West Virginia and western New York State; The Caldwell Chemical Company, Detroit, for the entire State of Michigan, and the Arthur K. Meyer Company, for the west coast. Meyer will also manage the Moore west coast offices in Los Angeles.

Devoe & Raynolds Names Dabney Denver Branch Mgr.

The appointment of W. C. Dabney, jr., as Denver, Colo., branch manager has been announced by George P. Gray, vice-president of the Devoe trade sales division of Devoe & Raynolds Company, Inc., New York.

Mr. Dabney joined Devoe in 1948 as an assistant to the Denver branch manager. He was later promoted to store manager of the Denver unit, in addition to his duties as a salesman calling on paint, brush and art material dealers in Colorado, Wyoming and Montana.

Thompson Succeeds Miller On US Development Board

Dr. Floyd L. Miller, who has been on a year's leave from the Standard Oil Development Company, New York, to serve as vice-chairman of the Research and Development Board, has resigned from the board and has been replaced by Dr. Louis T. E. Thompson, vice-president of the Norden Laboratories Corporation, White Plains, N. Y., the Department of Defense has announced. Dr. Miller has returned to his company as manager of the contract, legal, and patent department.

Trade Briefs

George J. Lane, of the Edgar Plastic Kaolin Company, has been elected president of the Ceramic Association of New Jersey.

U. S. Stoneware Company, Akron, Ohio, has issued a new bulletin (No. 730) on "Tygon" paint, which is available on request to G. W. Fine of the company.

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Petroleum Derivatives

The year-end saw no price changes in petroleum solvents or other derivatives, and none were expected in the immediate future, because there appeared to be nothing apparent in the current business situation from either a market or production standpoint which would contribute to any price adjustments.

The demand for low boiling aromatic solvents was heavy, and supplies were mostly on the short side. This market condition was primarily the result of the government's heavy defense demand on toluol for TNT and aviation gasoline. So much of the toluol was thus taken out of normal market channels, that an added demand was thrown on xylol and other low boiling aromatics. But xylol could not absorb all of the aromatic solvent shock occasioned by the shortage of toluol, because most producers use the same equipment to make toluol or xylol. When this equipment is tied up in toluol production, it naturally is not available for xylol production. So there is less xylol, and some of the aromatic solvent demand filters back to higher flash materials.

The aliphatic solvents were all in good supply, moving in steady volume under a firm price structure. Demand for LPG's was strong due to the colder weather, and the increased use of butane in gasoline to promote quick starting.

There was no pinch in the supply of microcrystalline waxes, as yet, despite the sustained good demand from the food packaging industry against a reduced microcrystalline output resulting from cutbacks in lube oil production.

Price Trends

Advanced
None
Reduced
None
Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month
104.13	104.13	104.13

(For Current Prices see page 9)

Solvents and Diluents

Cleaners Naphtha—The well sustained demand which has characterized this market during the fourth quarter continued in full force at the year-end. Prices were unchanged, and there seemed to be nothing apparent in the present business situation from either a marketing or a production standpoint, that would indicate any likehood of any price changes in the immediate future.

Aromatic Solvents—The high solvency, higher boiling partial aromatic solvents were in good demand at the year-end. Supplies were not too plentiful, but about in balance with demand, and there were no real shortages. Some producers said that they were in a position to take on some added business volume. Those solvents with lower mixed anilin points were in stronger demand than the lower solvency grades.

The lower boiling aromatic solvents were not in as comfortable supply position as were the higher boilers, due in part to a larger overall demand for the solvents, as such, plus the added burden of having to absorb some of the end-use demand that would normally go to toluol. The toluol scarcity for the fourth quarter of this year, and for the prospective first quarter of next year, was described as acute. Into the gap created by the toluol scarcity was inserted a greater demand for the lower boiling aromatic solvents.

Normally, the bulk of the unfilled demand for toluol would fall heaviest on xylol, too, although not as severe as the toluol scarcity. The toluol scarcity stemmed directly from the needs of defense in the manufacture of TNT and aviation gasoline. The shortage of xylol was the indirect result of the same toluol demand, arising from the fact that in most petroleum toluol/xylol production, the same processing equipment is used. Accordingly, when equipment is tied up in toluol production to meet the direct defense needs of the government, plus a part of the most urgent civilian requirements, it is not available for xylol production.

Mineral Spirits—The thing of most interest in the mineral spirits market was not the well sustained demand for the great bulk of aliphatic solvent used by the paint industry, but in the marketing of what is designated in the trade as odorless mineral spirits. The latter material currently listed in OPD as "Petroleum mineral spirits, specially refined" is so listed because of its marked improvement in lack of offensive odor over regular mineral spirits.

It commands considerable premium in price over the regular grade. For example, tankwagon deliveries in the New York area on the regular mineral spirits is 16½ to 17 cents per gallon, as against 37 cents for the so-called odorless product. At the same time, there is also a premium in solvency forfeited by use of the latter material because it has very definitely less solvent power than the regular grade.

However, the demand for the so-called odorless paints on the part of the consuming public, and some painters, has created a market for this type of solvent which is apparently here to stay, and to grow into a very considerable volume of business. These paint products are not simply made by using odorless mineral spirits in place of the regular grade, but must also employ specially processed vehicles to minimize the painty odor of the non-volatile portion of the vehicle.

Producers of the specially refined type of mineral spirits, designated as odorless, are still relatively few as compared with the total mineral spirits producers, but there are few mineral spirits producers who are not seriously looking into the possibilities of marketing such a product. Those that are currently producing it, have little trouble keeping production to a point where there is essentially no initial odor. However, one of the problems is the development of odor on storage either in the dark or on exposure to sunlight. One of the important problems being studied by those not yet on the market, is to produce a product which, side by side with a glass of water, will not be distinglishable by the sense of smell, not only initially, but after six months storage in darkness and in light.

VM&P Naphtha—Supplies were quite ample on this faster evaporating aliphatic solvent, and the item moved in good volume against a steady demand. Price patterns were unchanged from those which have prevailed over recent months, and no change was expected in the immediate future.

Lighter Fractions

LPG's—Propane and similar gases were in good demand with adequate supply. Not that it represents any substantial proportion of the overall propane consumption, but an interesting development from a market point of view is the growing use of LPG torches for burning off paint, and other uses for which blow torches had normally been used before. Small pint size pressure cans which clip into a small torch are finding a ready market, in addition to the larger cylinder type torches. Contributing to this ready market, is the general non-availability in local areas of lead free gasoline for blow torches, and when leaded gasoline is used, the vaporization chambers and needle valves soon get clogged up.

Waxes

Microcrystalline—The year-end saw the demand for microcrystalline waxes for food packaging and other purposes maintaining a good level, against a decrease in supplies resulting from recent cutbacks in lube oil production. As yet, however, there was sufficient material available to take care of the needs of industrial consumers, and no real pinch in supplies was expected to develop in the foreseeable future.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended December 13 totaled 269,541,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 268,053,000 barrels for the preceding week, this represents an increase of 1,488,000 barrels comprising an increase of 736,000 barrels in stocks of domestic crude and a decrease of 752,000 barrels in stocks of foreign crude.

For Late Market Developments, See Page 4

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Obituaries

Raoul D. Keim

Raoul D. Keim, an executive of E. R. Squibb & Sons, New York, died December 25 in New York. He was seventy-three years old.

Mr. Keim joined Squibb in 1904 as one of the company's first sales representatives. He was named general sales manager in 1917 and was later made a vice-president and director of sales. He served as a director from 1943 to 1946 and more recently served as trade relations counselor.

Thomas J. Starkie

Thomas J. Starkie, vice-president, director and member of the executive committee of the Witco Chemical Company, New York, died December 21 in New York. He was sixty years old. Mr. Starkie had been connected with Witco since 1922. He was also a director of Witco Chemical Company, Ltd.

Samuel A. Banta, a welder with the New Jersey Zinc Company for the last thirty years, died December 18 in Franklin, N. J. He was fifty-six years old.

Prescott R. Dickinson, assistant manager of the chemical products division of the General Electric Company, died in Cleveland, Ohio, on December 22. He was forty-six years old.

Frank H. Downes, for the past thirty-two years a financial officer of the Mallinckrodt Chemical Works, New York, died December 21 in White Plains, N. Y. He was seventy-one years old.

Harvey D. Geyer, retired chief engineer of the Inland Manufacturing Division of the General Motors Corporation, died December 21 in Dayton, Ohio. He was sixty-one years old. Mr. Geyer was recognized as a leading authority in the field of rubber-on-metal applications.

Arthur A. Kopp, an advertising executive for Oakite Products Company, New York, died December 18 at Indian Lake, N. J. He was sixty years old.

John W. Sheldon, who had been associated with the Standard Tallow Company, Newark, N. J., for twenty-seven years before his retirement in 1950, died December 17. He was sixty-nine years old.

Franklin E. Turton, a vice-president of the Braden Copper Company, who had resided in Chile for thirty-nine years, died in Santiago December 21. He was sixty-two years old.

Edward A. Uehling, founder and former president of the Uehling Instrument Company, Paterson, N. J., died December 21 at West Allis, Wis. He was 103 years old.

Joseph W. Van Karner, founder and head of the Van Karner Chemical Arms Corporation, Port Jervis, N. Y., died December 22 in New York. He was sixty years old.

Dr. Lewis H. Weed, former chairman of the division of medical sciences of the National Research Council, died December 21 in Reading, Pa. He was sixty-six years old.

Dibutyl Adipate Data Issued

A technical service report describing the uses and properties of dibutyl adipate manufactured by the Witco Chemical Company in its plant at Chicago, is now available upon request. The plasticizing applications of dibutyl adipate and its ability to impart low-temperature flexibility and water resistance are discussed. It is particularly effective when used in polyvinyl chloride, polyvinyl chloride acetate, ethyl cellulose, cellulose nitrate, polystyrene and synthetic rubbers, Witco states.

For a copy of "Technical Service Report E-5" interested persons may write to Witco at 295 Madison avenue, New York 17.

Synthane Corp. Reports New Melamine Laminate

A new lower-cost glass mat melamine laminate is now being produced by Synthane Corporation, Oaks, Pa., it has been announced.

The new grade, which combines high fire and arc resistance with good mechanical and chemical properties, will soon become standard for all Navy electrical power and lighting applications. Designated by Synthane as "G-8," the new material, laminated in thicknesses from 1/16 of an inch upward, uses a glass fibre mat impregnated with melamine resins. In addition to electrical applications, the new laminate is expected to be particularly useful where chemical resistance is required, such as in the plating and photographic industries, Synthane said.

Fats Extraction Data Offered

"Bulletin No. 1272" just issued by The Sharples Corporation, Philadelphia, fully describing the Chayen process for the continuous cold extraction of fats and oils from cellular material as applied to the degreasing of bone. The bulletin is available upon request to Sharples at 2300 Westmoreland street, Philadelphia 40.

Oils, Fats and Waxes

A flurry of interest on the part of soap makers, coupled with weakness in soybean meal, combined to raise crude soybean oil prices fractionally for both prompt and forward deliveries last week. Momentum of earlier heavy trading in crude cottonseed oil in Texas carried prices one-half cent higher in that area. Apart from these, demand for most oils was spotty.

Copra rose an additional $12.50 per ton, producing an advance in crude coconut oil. Crude and refined grades of corn oil were stronger, both moving up fractionally. Trading was light in linseed oil, and what business there was was reportedly contracted at concessions of upwards of twenty points.

Peanut oil fell off, crude dropping one-half cent per pound and refined three-quarter cent lower. Weakness developed in tung oil, as trading was severely limited due to the pre-holiday lull. Both domestic and imported grades were down.

Greases and tallow, influenced by a fractional advance in cash lard, both exhibited firmer tones. Continuance of stepped-up export inquiry played a major role in the strengthening of the greases market. Three inedible grades of tallow also moved up, with export business also a factor in the rises.

Oleostearin was lifted five-eighth cent per pound, although trading was quiet in the main. Soybean meal declined again, as heavy production and limited mixed feed continued to depress the market.

African beeswax steadied at higher levels in the wake of a recent two-cent advance. Carnauba wax prices held firm, although dealers here reported that sellers at the source were asking more money. There were some indications that the supply might tighten early next year, as reports continued to crop up of defaults on shipments. Trading was light in ouricury wax, and prices were steady.

Price Trends

Advanced

Copra, $12.50 per ton.
Grease, brown, ½c. per lb.
House, ½c. per lb.
White, choice, ½c. per lb.
Yellow, ½c. per lb.
Lard, ½c. per lb.
Oil, coconut, crude, ½c. per lb.
Corn, crude, ½c. per lb.
ref., ⅝c. per lb.
Cottonseed, crude, ¼c. per lb.
Oleostearin, ⅝c. per lb.
Tallow, extra, ¼c. per lb.
Fancy, ¼c. per lb.
Special, ½c. per lb.

Reduced

Oil, peanut, crude, ½c. per lb.
ref., ¾c. per lb.
Tung, dom., ¼c. per lb.
imp., ¾c. per lb.
Soybean meal, 50c. per ton.

Last week	Prev. week	Last month	Dec. 28, 1951
107.75	108.22	113.13	123.38

(*For Current Prices see Page 9*)

Vegetable Oils

Castor, Dehydrated—The holiday lull was in effect last week, as buyers showed little activity and prices held firm at previous levels.

Coconut—Reflecting an advance in copra, the market gained another ½c. per pound last week. Crude oil moved up to 16c. per pound, tankcars, f.o.b. Pacific coast, December; 15¾c. per pound, first half January, and 15½c. per pound second half January. The New York market advanced to 17c. per pound, tankcars, nearby delivery, and 16½c., January.

Copra—Shipments continued to move in increasingly heavy volume because of short covering for European accounts. The price jumped $12.50 to a quotation of $225 per ton, c.i.f. Pacific coast.

Corn—The market was stronger, with crude sales reported at 14¼c. per pound, tankcars, f.o.b. mills. Refined oil was higher at 17¾c. per pound, tankcars, New York delivery.

Cottonseed—Bleachable cottonseed oil futures displayed a stronger tone last week, with minor gains noted in most positions. Despite the onset of the Christmas holiday, considerable activity was noted in the market. Speculative interest was maintained at a good pace and trade buyers also were active on both sides of the market.

The New York Produce Exchange, as previously announced by its board of governors, will close its cottonseed and soybean oils futures markets at 1 p. m. Wednesday, December 31.

Momentum of the previous week's heavy trading carried along during the pre-holiday period in Texas. Crude oil in that area gained ½c. per pound, moving to 13⅞c., tankcars, f.o.b. mills. Advances were also noted in the Southeast and Valley, with sales reported at 14c., tankcars. Mills were still very reluctant sellers, tendering their oil to the government under the package deal.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the period ended Dec. 24 follow:—

	Sales	Cents per pound High	Low	Close
January	18	16.75	16.75	16.88B
March	279	16.95	16.61	16.89—16.86S
May	156	16.74	16.50	16.71S
July	84	16.64	16.43	16.62S
September	4	16.15	16.00	16.17@16.18
October	1	15.88	15.88	15.89@15.96

Total sales, 552 contracts, including switches.

Memphis—Light trading was reported. Crude cottonseed oil was sold at 14c. per pound, f.o.b. mills, and crude soybean oil at 13¾c., same basis. Soybean and cottonseed meal were said to have been under some pressure by resellers during the last few weeks. Demand, it was stated, has only been fair. Many mills are closing down this week. Pressure for shipping instructions by processors has greatly abated. Demand is expected to improve after the first of the year.

Linseed Oil—Trading was light, and what business was done was transacted at concessions of upwards of twenty points. Sellers asking prices for raw oil still held at 14.7c. per pound, tankcars, f.o.b. Minneapolis, and 15.95c., New York basis. Some sales were reported at 14.5c. per pound, Minneapolis. Interest in deliveries against previous contracts continued to slough off, a customary pre-holiday trend.

Minneapolis.—The linseed oil market continued in a holiday mood and paint manufacturers and other users generally displayed a minimum of interest, area crushers reported. There was little in the immediate picture to indicate any immediate improvement in demand. A few comparatively small lots of oil were taken for fill-in needs during the holiday-shortened week. Official quotations held steady with a week ago, with tankcar basis at 14.7c. per pound, f.o.b., Minneapolis, and warehouse stocks at 14.9c. Rock bottom price at which some sales were said to have been made was 14.5c. Mills pushed for directions but, even here, activity was slow.

Shipments of linseed oil, in pounds, were as follows:—

	1952-53	1951-52
Past week	5,120,000	3,900,000
Since Sept. 1	132,620,000	128,700,000

Flaxseed—Good demand and generally light marketings was the feature last week.

Minneapolis.—Flaxseed was in good demand as marketings held light. Most No. 1 seed sold in a range of $4.10 to $4.12 a bushel, or at option (March future) price. Trading basis was switched from the expired December delivery to March on a 5c. spread. Offerings were very light every day, with exception of Monday, when some fair-sized purchases were made. Bookings in the spot cash market totaled forty-five cars and in excess of 12,000 bushels in trucklots while "to-arrive" purchases amounted to seventeen cars and 35,000 bushels in trucklots. Receipts for the holiday-shortened week amounted to 111 cars as against ninety-six cars in the previous week and eighty cars in the corresponding period last year. Shipments from Minneapolis totaled forty-seven cars, compared to eighteen cars in the preceding week and nine cars a year ago.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1952-53	Receipts 1951-52	Shipments 1952-53	Shipments 1951-52
Past week	153,000	215,900	67,050	81,600
Since Sept. 1	10,839,700	15,954,900	1,526,800	2,455,000

Mustard Seed—Quiet trading was reported last week. Natural was unchanged at 16c. per pound, drums, carlots and 16½c. for smaller quantities.

Oiticica—Little activity was noted in this market last week, with trading quiet and offerings limited. Liquid continued at a range of 25c. to 25½c. per pound, tankcars, New York, prompt delivery, according to seller. Oil in drums held at 26½c. to 27c., as to quantity.

Olive—Prices ruled steady last week, as business continued limited to small-lot orders for immediate requirements. Edible oil was priced at $2.35 to $2.50 per gallon, drums, spot, duty paid, varying with quality and quantity. There was little interest from buyers in seeking replacements from Spain. Olive oil was quiet and remained nominal at 15c. per pound, drums, spot.

Palm—Prices remained unchanged in a quiet market. Clarified continued at 11.7c. per pound, tankcars, while drums were maintained at 12.6c. per pound, New York, for January arrival.

Palm Kernel—Trading was slow. Tankcars were unchanged at 14½c. per pound, in bond, Atlantic coast for prompt delivery.

Peanut—Both crude and refined fell off

For Late Market Developments, See Page 4

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fractionally last week. Crude oil was quoted at 26c. per pound, f.o.b. mills, while refined dropped to 29¾c. per pound, tankcars, New York basis. The supply of peanut oil was reported very small, and the outlook for additional supplies was still deemed unpredictable because the government has given no indication as to when peanuts will be released for crushing.

The supply of peanuts in commercial positions on November 30 totaled 881,480,000 pounds, farmers' stock equivalent, which is only slightly below the holdings of 888,296,000 pounds on that date a year ago, according to the Department of Agriculture. The supply of farmers' stock peanuts did not increase the usual amount during November, USDA said, which emphasizes the earliness of the harvest this year, particularly in the Southeast and Southwest. Holdings of farmers' stock peanuts totaled 764,885,000 pounds compared with 789,451,000 pounds at the end of November 1951.

Disappearance of shelled peanuts, including oil stock for crushing, totaled 217,279,000 pounds to November 30. This was about 4 percent less than the disappearance of 226,634,000 pounds to that date last year. However, the disappearance of edible grades was reported to be running slightly higher than a year ago. The disappearance of peanuts cleaned in the shell for roasting, crude peanut oil, and peanut meal and cake to November 30 were each less than to that date last year.

Rapeseed — Traders remained inactive during the pre-holiday lull last week. Refined held unchanged and nominal at 16½c. per pound, tankcars, New York, for prompt delivery.

Rice Bran—Scarcity of crude offerings kept this market steady. Crude oil was maintained at 12¾c. to 13c. per pound, tankcars, delivered East.

Safflower—Prices were well held at former levels. Tankcars were quoted at 15½c. per pound, and 17c. per pound, drums, carlots, delivered Atlantic coast.

Soybean—With another decline in soybean meal, occasioned by the slump in demand for that material, crude oil exhibited strong undertones as the price for prompt delivery remained unchanged. Sales were made at 13¼c. per pound, tankcars f.o.b. mills, for December delivery. However, with soap makers increasingly active in the market, some traders rated crude up to fifty points better. January moved at 13c. per pound; March, 12⅝c. April-June was quoted at 12¼c., same basis. Salad oil held at 16c. per pound, tankcars, New York basis; alkali refined, 15¾c., and clarified, 15¼c., same basis.

Sales and prices of prime crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the period ended Dec. 24 follow:—

	Sales	Cents per pound High	Low	Close
January	15	13.05	12.93	13.10@13.15
March	59	12.80	12.40	12.80@12.88
May	68	12.50	12.00	12.40@12.45
July	15	12.30	12.00	12.31@12.38

Total sales, 164 contracts, including switches and ex pit.

Tung—Weakness developed in this market last week, as trading fell off because of the holiday lull. Sales were made at 31½c. per pound for the domestic, tankcars, f.o.b. mills, for nearby shipment. Imported oil dropped ¾c. per pound, tankcars sinking to 33c. per pound, spot New York. Drums declined to 34¾c. per pound for carlot quantities and to a range of 35¼c. to 35½c. for smaller amounts.

Fats and Greases

Greases—A firmer tone was evident during the week, due largely to a continuance of stepped-up export inquiry. What trading there was was confined to export business, which entailed premiums. Buying interest for this country was limited, due in the main to the seasonal lull. Choice white moved up to 5¾c. per pound, tankcars, delivered. Yellow was at 4⅜c. per pound; house, 4¼c., and brown, 3⅝c., same basis.

Lard—Cash lard gained ⅛c. during the week, with a quotation of 8¼c. per pound, tierces, Chicago.

Tallow — Tallow continued to show strength, as export trading remained at an active pace. Large buyers confined themselves to replacement inquiries. Three inedible grades gained. Fancy moved up to 5¾c. per pound, tankcars, delivered. Extra was quoted at 5½c., while special brought 5c., same basis. Special held steady at 4½c. per pound, tankcars, delivered.

Guatemalan importers of beef, mutton, or synthetic tallow must now buy domestic tallow in quantities equal to 20 percent of their imports, according to a government resolution which became effective December 2. Before that date, importers were required to purchase domestically quantities equal to 10 percent of their imports.

Animal Oils

Oleostearin gained ⅛c. per pound during the week, rising to a quotation of 8⅝c. in barrels. Small lot trading was noted for both industrial and edible grades of animal oils. Demand for grease oil was spotty, with prices without change. Neatsfoot oil also was quiet and steady. Interest in tallow oil was confined to actual needs. Offers of oleo oil were liberal, with buying interest slow.

Fish Oils

Cod—Quietness prevailed in this market last week. Interest in replacements continued slow, but offers for shipment also were light. Tanked oil was merely nominal at 8½c. to 9c. per pound, drums, c.i.f. New York. On spot, small lots were quoted at 10c. to 10½c. per pound, as to quantity.

Refined Fish—Refined grades were inactive and quotably unchanged. Light pressed oil was maintained at 11c. per pound, tankcars, and alkali refined at 12c., New York basis. Crude menhaden oil was quiet, and nominal at 7½c. per pound, tankcars, f.o.b. New Jersey points, 6½c., North Carolina and 6c., Gulf ports.

Fatty Acids

This market was quiet but steady for both animal and vegatable fatty acids. New business was inactive, but deliveries against former orders continued in moderate volume. Red oil and stearic acid were well held at current prices. Vegetable acids also were in steady request against orders. Prices were unchanged and well held for all varieties.

Cake and Meal

Cottonseed Meal—The slow feed demand, especially for high protein feeds, and the government support program guaranteeing the mills ceiling price for cottonseed meal, has caused the market trading for the last several weeks to be almost at a standstill. A few resellers are forced to cut the market as much as $5 per ton in order to get shipping instructions. Up until recently, demand west of the Mississippi River has been good enough to take all the Mississippi Valley production, but now demand has dropped off, forcing some resellers to offer cake and meal at $2 to $3 under mill ceilings.

Linseed Meal—Demand for linseed meal was much lighter last week, a reflection of the extreme weakness in the soybean meal market.

Minneapolis.—Extreme weakness in the soybean meal market made itself felt in the linseed meal market. Demand for linseed meal at ceiling levels was much less urgent the past week as buyers were unwilling to pay full jobber mark-ups on anything except prompt needs. Weakness was evident on January through March offerings, crushers reported. Prompt shipment held steady at the ceiling of $82 a ton, bulk, in carlots, f.o.b. Minneapolis. Supplies appeared to be moving well and nothing was pressing on the market.

Shipments of linseed meal, in pounds, were as follows:—

	1952-53	1951-52
Past week	12,840,000	6,600,000
Since Sept. 1	232,400,000	233,100,000

Peanut Feed—The very small supplies of peanut feed in the Southeast are trading mostly locally in truck lots at $90 per ton sacked f.o.b. producing points. There is hardly enough trading to establish a market, since the only buyers are those that are interested in keeping small amounts of peanut feed in their formulas. The production outlook for peanut feed is still very indefinite, due to the government not making any indication as to when they will release additional peanuts for crushing.

Soybean Meal—Prices fell off another 50c. per pound in Decatur last week, as heavy production and limited mixed feed interest continued to depress the market. Meal 41 percent was lowered to $70.50 per ton for December, Decatur basis. Meal 44 percent in bulk was offered at $71 January; $72.50 February-March, basis Decatur. Meal 44 percent, bulk, in the Mississippi Valley was offered at $74 January-February, plus $5 for sacks. There still appeared to be quite a good volume of soybean meal to sell for January forward shipments and the producers seem to think that present levels are as low as they can run their mills, considering present prices of oil, meal and beans.

Waxes

Beeswax—African on spot steadied at higher levels in the wake of a recent 2c. per pound increase. The material was quoted at a range of 46c. to 47c. per pound, depending upon seller and quantity. Central American crude held fast at 54c. to 55c. per pound. Refined grades were similarly unchanged.

Carnauba—A stalemate was reported in this market last week. While prices were unchanged, they were reported to have a strong undertone, with sellers at the source demanding more for the wax. However, interest here was largely negligible, due primarily to the onset of the holidays. Some dealers here reported defaults on shipments, and indications were that the supply was due to get tighter. There was no Parnahyba No. 1 and No. 2 yellow reported on the market. Crude No. 3 carnauba held at 98c. to $1.01 per pound. No. 3 refined was similarly firm at $1.03 to $1.05, depending upon quantity. No. 1 Ceara yellow remained at $1.28 to $1.30 per pound, as to quantity, while No. 2 was quoted at $1.26 to $1.28, same basis.

Ouricury—Trading was light, as is customary during the pre-holiday week. Refined continued at a range of 71c. to 75c. per pound on spot, depending upon seller and quantity.

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1#00 Raymond Mill 30 H.P. complete.
2—#0000 Raymond Mills
Hammer Mills & Pulverizers, to 50 HP
1—Sturtevant 42" Rock Emery Mill.
1—Robinson 22" B.B. Attrition Mill.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills. 8"x22" 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 1 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
2—U. S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Baker Perkins double arm Mixers, 100, 50, 9 gals. & 4½ gals. Also single arm Mixers
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x3' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers. 50 to 2,000 lbs.
Day 15 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers to 150 gals.

MISC. AND SPECIALS

2—Buffalo 6' dia. Vac. crystallizers.
4—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 3".
4—French Oil 400 Ton Linseed & Cottonseed Hydr. Presses.
4—French Oil Motor Driven Expellers.
1—Stokes 2E Paste Filler.
3—Stokes and Day Powder Fillers.
Filling Machines, liquid paste, powder.
Elgin Capper, ½ H.P. Motor driven.
2—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36"
1—Gould 75 HP 2 stage centrif. Pump.
4—Stokes Vertical High Vac. Pumps.
2—Worth 12"x12"x12" Vac. Pumps.
6—Devine & Buffalo Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc. Centrif., Rotary, Duplex & Triplex Pumps, Boilers—Gas, Oil & Coal Water Stills.

WRITE FOR BULLETIN. WE BUY YOUR SURPLUS MACHINERY AND COMPLETE PLANTS

STEIN EQUIP'T CO.
167 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

P.A.'s-Eye View

—Continued from page 5

workers are in short supply. There is very little comment on strikes this month.

Buying Policy

With supply lines filling up, scarce materials replaced by substitutes, a conservative inventory policy and more evidence of a buyers' market, purchasing agents are holding to a short-range future coverage of "hand-to-mouth" to ninety days; the movement is toward sixty-to-ninety days where needed materials for definite production schedules are available within that range. No boom or bust is foreseen in the near future.

Specific Commodity Changes

Few ups or downs in December, none of them of broad influence on the industrial price structure. Reported up were benzol, brooms, coal, coke, graphite, electrodes, glycerin, mercury and rubber. Down were alcohol, canvas, clothing, cotton, esters, meat, eggs, sugar, some grades of lumber, linseed oil, soap, rayon, staples, burlap, turpentine and galvanizing. Continuing hard-to-get are diamond tools, glycerin, mercury, nickel, some sizes of pipe, polyethylene and some steel. Easing up are some aluminum, copper, lead, zinc, pig iron, wire, many steel items and electrical equipment.

Canada

Canadian business continues at a high level. Production and order books are holding better than in the United States. Prices are static. Inventories are leveling off and trending down. Employment is stepping up. Buying policy is still longer range than in the states. Good business for 1953 is anticipated—with growing population, increasing capital investment and expanding industries supporting this optimistic forecast for Canada.

Sulphur World Quota

—Continued from page 3

stock adjustments, and United States exports were limited to 232,500 tons. The United Kingdom, the second largest consumer, was allotted 83,000 tons and an import quota of 48,500 tons.

Export quotas were established for other producing countries as follows:—Chile, 10,000 tons; Colombia, 1,000 tons; Ecuador, 3,500 tons; Italy, 20,000 tons; Japan, 20,000 tons; Mexico, 1,000 tons; Netherlands, 800 tons; Norway, 19,000 tons; and Peru, 2,500 tons. The amount of sulphur under export quotas totals 310,300 long tons.

The Office of International Trade announced that the United States export quota of 232,500 long tons is the same as that for the fourth quarter of 1952. The agency also announced that the quota for refined sulphur is being fixed at 12,500 long tons, or 5,000 long tons higher than the fourth quarter quota. The latter increase was made possible, it was stated, by the general improvement in the United States supply position and will enable OIT to license a quantity of refined sulphur that will more nearly meet the export demand.

Definition Under Licensing Procedures

As defined under OIT licensing procedures, the quota for crude sulphur covers crude sulphur from all production sources having a purity of 97 percent or better. This includes run of the mine Frasch sulphur, sulphur obtained by upgrading of sulphur ores to a quality of 97 percent or better, and sulphur recovered from pyrites, shale oil, industrial, refinery or natural gases, and whether shipped in bulk or crushed for shipment in bags. Crude sulphur which has a purity of less than 97 percent is not included in these quotas, but is subject to export licensing, OIT explained.

The filing period for license applications to export refined sulphur is December 22 through January 15. There is no time schedule for filing license applications for crude sulphur. Because of changing economic conditions throughout the world, OIT said that it did not find it feasible to announce at this time a final country distribution of export quotas for either crude or refined sulphur. However, in order to facilitate the filing of license applications during the quarter the agency made public a list of known country requirements to serve as a guide for license applicants.

FOR SALE

Pebble Mills: 5 gal. to 250 gal.
Pulverizers: Micro SH, 1SI, 2TH.
Vacuum Pans: 6' stain. steel. 5' copper.
Powder Mixer: Day. 44 cu. ft., jktd.
Clarifiers: Sharples Vaportite st. steel.
Centrifugals: 24" and 30" Tolhurst.
Mixer: Read dbl. arm, 380 gal., st. steel.
Disintegrator: Rietz 40 hp.
Clarifiers: De Laval 84-51. motor dr.
Filter: Oliver 3'x4', Everdur. con.
Vacuum Pumps: Nash AL-4 and H5.
Press: Davenport 3-A, Durimet con.
Mill: 12x24' Farrel-Birmingham. 25 hp.
Dryer: American 42x120" double drum.
Vacuum Pan: Stokes 25 gal st steel. jackfd.
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Colloid Mills: Premier. Charlotte—st. steel.
Tanks: 3,000 gal. vert. dairy gl. lined jktd.

LOEB EQUIPMENT SUPPLY CO.
1925 W. North Ave. Chicago 22, Ill.

To All Our Friends
Best Wishes For
A Happy New Year

HEAT & POWER CO., INC.
70 PINE ST. NEW YORK 5, N. Y.
Machinery & Equipment Merchants

NSRB Urges Adoption

—Continued from page 3

incentives available, with particular emphasis on a comparison of the effectiveness, economic desirability, and cost to the government of various alternatives.

Recommendations Split Into Groups

The NSRB split the seventy-eight recommendations in the Paley report by subject matter into twelve separate groups and reviewed the findings of the government departments and agencies as respects the recommendations in each group. Among the actions urged by the NSRB for carrying out certain formal recommendations of the commission are the following:—

In connection with federal encouragement to the development of domestic minerals resources, the NSRB recommended actions which include providing for a mineral leasing system as an optional alternative to claim-staking on public lands, for an expansion of geologic and topographic mapping, research on exploration techniques and instruments, coal research, and basic fact-gathering and economic analysis of date in the minerals field.

With respect to atomic energy, the NSRB recommended that present legislation be amended to encourage greater participation by private enterprise in the utilization of atomic energy as a source of power.

St. Lawrence Seaway Project Approved

Other recommended actions are that the President ask the congress to authorize United States participation in the St. Lawrence seaway and power project, to advance multiple-purpose river development, and to prescribe policy for managing off-shore public lands.

With respect to improving the resources position of the United States and of the free world as a whole the resources board recommended increasing the scale of technical assistance abroad and greater emphasis on mineral resources in technical assistance programs; enactment of legislation authorizing unilateral reduction or elimination of tariffs on raw materials in which this country is substantially deficient; repeal of the buy American act; and enactment of certain amendments to the tax laws so as to encourage United States investment in the development of foreign resources.

The board endorsed the commission's recommendation that federal investigation of trade restraints be intensified in the building and building materials industries—the largest consumer of materials—looking to the elimination of restrictions on the adoption of known materials saving technics. Provision is also made for the expansion of federal research programs in the building field and for the formulation of national standards of building construction.

Materials Problems Need Analysis

Some important materials resource problems, the report stated, require further analysis before specific proposals can be made. It was recommended that studies be made of the general question of incentive devices for the mineral industries, the criteria that should govern direct governmental exploration activities, methods of establishing strategic reserves of petroleum and the desirability and feasibility of executive resource agreements.

Finally, the report urged that resources policies and programs, particularly those affecting the national security, be kept under continuing view. Among the items that need special attention are stockpile purchases and the determination of stockpile objectives, government participation in the expansion of production abroad of materials necessary for national security, development of economic production of synthetic liquid fuels, conservation practices by the federal government in the use and recovery of scarce materials, and the effect of ad valorem taxes on timber management.

Naval Stores Loan Plan For 1953 Crop Announced

A loan program, continuing price support for gum naval stores of the 1953 crop, has been announced by the Department of Agriculture.

The 1953 support level, applied to the naval stores production unit of fifty gallons of turpentine and 1,400 pounds of rosin, is $129.81, which represents 90 percent of the estimated parity price of crude pine gum, processed basis, as of the beginning of the marketing year, April 1, 1953. The pre-unit support level will remain fixed throughout the loan period. Individual loan rates applied to turpentine and rosin, of grade I or better, however, may be revised from time to time as conditions justify, though always maintaining the per-unit support level. The initial loan rates will be 50 cents per gallon of turpentine, bulk, and $7.49 per 100 pounds of gum rosin. The rosin rate will be applicable to rosin graded WG or better, with a rate 10 cents lower for grades N. M, K and I.

Commodity Credit Corporation loans will be made available through December duced domesticaly in the calendar year 31, 1953, on eligible gum naval stores pro-1953 through the American Turpentine Farmers Association Cooperative, Valdosta, Ga. Loans will be available to producer-members who coopoerate in the 1953 gum naval stores conservation program or otherwise follow good conservation practices as determined by the Department of Agriculture.

To be eligible for loans, gum rosin must be Federally inspected and packed in eligible metal drums placed on approved storage yards, while turpentine must meet loan specifications and be in approved bulk storage tanks. Under the 1952 loan program the support price was $129.72 per production unit, 90 percent of parity as of December 1, 1951. Through December 6, loans were made on 279,159 drums of rosin and 43,874 barrels of turpentine of which 876 drums and 4,682 barrels have been redeemed. Producers have until April 1, 1953, to redeem the remainder. This support program continues similar programs which have been in effect since 1938.

Flaxseed Crop Reduction By Farmers Requested

Farmers are being asked to reduce their production of flaxseed 13 percent next year below 1952 production because of the heavy carryover of linseed oil, the Department of Agriculture announced December 24. A slight reduction in soybean production is also recommended by the department.

The 1953 goal for flaxseed was set at 3,000,000 acres, to produce 27,000,000 bushels of flaxseed. This is 87 percent of the 1952 acreage of 3,450,000 acres which produced 31,002,000 bushels. The 1946-50 average is 4,330,000 acres and production is 40,244,000 bushels.

The 1953 goal for flaxseed is at a relatively low level, the department said, because (1) stocks of linseed oil on hand at the beginning of 1953-54 will be large, approximately equal to a year's normal requirements, and (2) some of the land which could be planted to flaxseed might be used to better advantage in producing other crops, particularly feed grains, hay and pasture. The national average price support for the 1953 crop has been announced at $3.79 per bushel, basis No. 1, which is 80 percent of the parity price on August 15, 1952.

The soybean goal is 277,000,000 bushels, from an acreage of 13,500,000 acres. Production would be 95 percent of the 1952 output and the acreage is 96 percent of the 1952 area sown to this crop.

The department explained that soybeans are the only crop grown principally for edible oil and meal for livestock feed. While the goal seeks high production of soybean, it was stated, a small drop below this year's crop is proposed to prevent the accumulation of burdensome supplies of edible oils under price support and to permit substitute plantings of corn in areas where the two crops compete importantly for available productive land.

Prices will be supported at a national average of $2.56 per bushel, the same as for the 1952 crop. This is 90 percent of the parity price as of September 15.

Inter-Gulf Names Di Novi

The Inter-Gulf Chemical & Supply Corporation, New York, has announced the appointment of Louis A. Di Novi as general traffic manager. Mr. Di Novi will be located at the New York executive office, and will supervise export traffic as well as domestic shipments from the company's Texas plants.

Business Wants and Offers

RATES PER INSERTION—PAYABLE IN ADVANCE (Not Subject to Agency Commission)

ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less: 85c. for each additional six words or fraction.

NO DISPLAY—First two words printed in bold face type.

COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

Send replies to ads with box numbers to OIL, PAINT AND DRUG REPORTER *30 Church st., New York 7, N. Y.*

EQUIPMENT OFFERED

Stainless Steel Cooker—Installed new 1949 by Buflovak, stainless steel clad cooker, to hold 6,000 lbs. of material and 2,250 gallons of water and giving a mash depth of approximately 4'4"; tank measures 11' I.D. by 7' high on the straight side with the lower 3' portion steam jacketed and with a dished top and 25-degree coned steam jacketed bottom; cooker designed for 14 lb. internal pressure, steam jacket for 40 p.s.i. and built in accordance with ASME Code; constructed of 20% stainless clad steel, welded throughout; pressure type manhole on top; steel agitator approximately 6' diameter, with two breaker arms; top driven by 20 HP, 12½ volt, 850-430 RPM motor designed to rotate at speed of approximately 18-36 RPM; still installed as last used; manufacturer's blueprints and photographs available; equipment for sale only due to plant having just been merged; subject to prior sale but options upon request. Write for details OPD 691

Stokes High Vacuum Pumps 212C, unused, water-cooled, 100 cfm; V-drive. Satisfaction guaranteed. Only a few left. Price very reasonable, inspect. American Sales Co., 198-11 Hollis Avenue, Hollis 12 N Y HOllis 8-2900.

EQUIPMENT WANTED

Wanted—Several wood tanks new or used made of cypress or red wood, 10,000 gallons each or larger. Wanted—Stainless steel filter press closed delivery washing type, having cake capacity of 12 cubic feet or larger. OPD 692.

CASH FOR SURPLUS

- Excess Inventory
- Waste Solvents
- Spoiled Batches

Acsto CHEMICAL COMPANY INC.
82 BEAVER ST., New York 5, N. Y.
Digby 4-9760

EQUIPMENT WANTED

Wanted—Process Machinery including Jacketed Kettles, Heavy Duty Mixers, Pulverizers, Filters, Dryers, Reaction Kettles, Distillation equipment, Packaging Units, s/s and non-corrosive tanks—will consider Idle or Operating Plant. P. O. Box 1351, Church St. Sta., New York 8, N. Y.

Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 654.

FACILITIES OFFERED

Custom Drying—Twin drum, Buflovak driers with complete facilities are available for custom drying. Facilities available for manufacture of chemical components and warehousing. Excellent shipping facilities by rail or truck. Experienced operators. Anderson Laboratories, Weston, Michigan.

Facilities for homogenizing and emulsifying on a production basis, also for large scale extraction of botanicals or other materials with aqueous or solvent media. Can produce concentrates. Ample space for storage, packaging, etc. New York area. OPD 664.

FACILITIES WANTED

We are looking for recrystallization facilities for water soluble material. Offers under OPD 696.

MATERIALS OFFERED

Urea. Prompt deliveries, also futures. Standard quality 46% white crystals. We offer below schedule: Maleic Anhydride, Sodium Hydrosulfite, Rongalite, Isopropyl Alcohol 99, Titanium Dioxide, Cresylic Acid, Saccharine, Copper Sulfate, DDT. Tobey Chemical Co., 1480 Broadway, N. Y. C. Tel. LOngacre 4-2520.

400 Gross Quarts—Amber—28 MM finish—Packed 1 dozen in "A" unmarked cartons, excellent condition. 25% off original list price. F. O. B. Baltimore. OPD 697.

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To manufacturers and jobbers. Are you overstocked? We require immediately large or small lots many items, chemicals, pharmaceuticals, solvents, aromatics, waxes, other supplies. Submit offerings at once. Correspondence treated confidentially. OPD 655.

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Plant Manager: Many years over-all management experience Litho-Prtg. ink plant,—inclusive: Personnel, Office, Purchasing (familiar raw materials, markets, etc.). College graduate. A-1 references. Available Feb. 1st for similar position—same, kindred field. OPD 695.

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The linings in each of these glass-lined tanks is almost perfect. The tanks may be inspected and can be shipped immediately. The price is about half of new. In almost all cases fittings and stands are included. Individual lots of the 70 can be purchased separately. Inspection is invited. Option will be cheerfully granted. Subject to prior sale.

Quantity	Capacity Each	Dimensions
8	18,135 gallons	9' x 40' long
12	13,857 gallons	8'6" x 35' long
4	10,168 gallons	8' x 26' long
14	8,525 gallons	10' x 16' long
12	6,758 gallons	8' x 19'3" long
1	6,355 gallons	9' x 14' long
12	6,262 gallons	12' x 12'3" long
3	5,270 gallons	7' x 20' long
3	3,565 gallons	8' x 10'8" high
1	1,953 gallons	7' x 6' high

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A Happier New Year

IF YOU SELL NOW!!!

- You end inventories
- Over—commitments
- Cancelled export shipments
- Off—batches and residues
- Entire plants—operating or for liquidation

Chemical Service Corporation
88 BEAVER ST., NEW YORK 5, N. Y.
HAnover 2-6970 EST. 1923

Trademark Coverage

—Continued from page 5

less a contrary legislative intent appears. The question thus is 'whether congress intended to make the law applicable' to the facts of this case.

"In the light of the broad jurisdictional grant in the Lanham Act, we deem its scope to encompass petitioner's activities here. His operations and their effects were not confined within the territorial limits of a foreign nation. He bought component parts of his wares in the United States, and spurious 'Bulovas' filtered through the Mexican border into this country; his competing goods could well reflect adversely on Bulova Watch Company's trade reputation abroad," the decision stated.

"Under similar factual circumstances, courts of the United States have awarded relief to registered trademark owners, even prior to the advent of the broadened commerce provisions of the Lanham act.

Prior Law Not Constricted

"Even when most jealously read, that act's sweeping reach into all commerce which may lawfully be regulated by congress does not constrict prior law or deprive courts of jurisdiction previously exercised. We do not deem material that petitioner affixed the mark 'Bulova' in Mexico City rather than here, or that his purchases in the United States when viewed in isolation do not violate any of our laws. They were essential steps in the course of business consummated abroad; acts in themselves legal lose that character when they become part of an unlawful scheme," according to the decision.

One of the facts in the case was that Steele had taken steps to register the trademark "Bulova" in Mexico. During the period while the case was under consideration by the supreme court, the Mexican courts nullified the registration. Justice Clark said that the court would not rule on the question whether a valid foreign registration would affect the power to enjoin since this question is not before the court in view of the Mexican court's decision.

Case, CMRA Sponsor

—Continued from page 7

Wick Eddy, market research department, Texas Gulf Sulphur Company, New York, May 5. "Case Study: The Synthetic Detergents Industry," Lawrence Flett, director, new products division, National Aniline Division of Allied Chemical & Dye Corporation, New York, May 12. "Case Study: The Rubber Industry," Royal E. Davis, manager, sales research, the Goodyear Tire & Rubber Company, Akron, Ohio, May 19. "Summary of the Course," James G. Park, vice-president and general sales manager, chemical products department, Enjay Company, New York, May 26.

The registration fee for the series will be $25. Inquiries concerning registration should be directed to Dr. William von Fischer, head of the department of chemistry and chemical engineering, Case Institute of Technology, Cleveland 6, Ohio.

Soap Ass'n Announces

—Continued from page 7

speaker at the annual banquet in the evening.

Cleanliness Products Panel

Materials which are used to formulate cleanliness products, including fats and oils, synthetic detergent bases, phosphates and other chemicals will be reviewed as to availability in 1953 by a panel. Packaging materials and materials of construction will also be covered. A related session, also on January 29, will cover developments in the field of synthetic detergents.

Talks have been scheduled on man-made fibers by J. B. Quiz, of E. I duPont de Nemours & Co., and on cotton by Paul Jones, of the National Cotton Council, to be given before the industrial soap division. Miss Alta M. LaBella, consultant on housekeeping management to the Veterans' Administration, will talk on hospital problems.

Mediterranean Olive Oil

—Continued from page 5

and for export demand in 1953, despite the expected low production.

With the prospects of a short crop, prices have increased somewhat in most areas. The uncertainty in respect to the actual stock situation has been an important factor in limiting price increases. North African prices, however, are reported up sharply. Exports from North Africa and from Italy also have been up sharply in 1952. Shipments from Spain, in contrast, have been slow, totaling only 11,483 tons through September against 23,290 in the year 1951 and 39,118 tons in 1950.

Spanish Price Policy Abandoned

The government of Spain has abandoned the policy of a fixed price for olive oil and announced freedom from price controls for olive oil exports retroactively, effective December 3. This does not mean that oil may be exported at any price agreed upon between buyer and seller. Rather, the Ministry of Commerce will issue export licenses at agreed prices if they are considered reasonable and in keeping with current quotations in world markets.

Lack of price flexibility under the previous system of fixing a definite price for an entire season was unsatisfactory and the new system eliminates one cause of dissatisfaction among oil shippers.

It is reported unofficially that the first export licenses under the new arrangements authorized on December 12 were issued at a price of about $560 per metric ton compared with the previous fixed price of $620.

WHO Committee Adopts

—Continued from page 4

2-Metheyl-1,4, naphthoquinol disodium sulphate.

Mercaptamine (WHO No. 195)—Betamercaptoethylamine.

Metaraminol bitartrate (WHO No. 34)—(—) 1-M-hydroxy-2-amino-1-propanol hydrogen tartrate.

Methenaminium tetraiodide (WHO No. 166)—Hexamethylenetertaminium tetraiodide.

Methylbenzethonium chloride (WHO No. 118)—Benzyldimethyl-2-2-(p-1,1,3,3, tetramethylbutylcresoxy) ethoxy ethylammonium chloride.

Methylrosanilinium chloridum (WHO No. 113)—Crystal violet.

Nitrosulphathiazole (WHO No. 121)—2-(P-nitrophenylsulphonamideo) thiazole.

Sodium ascorbate (WHO No. 174).

Sodium dehydrocholate (WHO No. 158).

Sodium morrhuate (WHO No. 128)—The sodium salts of the fatty acids of codliver oil.

Sodium tetradecyl sulphate (WHO No. 130)—Sodium 7-ethyl-2-methylundecyl-4-sulphate.

Oxytetracycline (WHO No. 103)—An antibiotic substance obtained from streptomyces rimosus.

Phenacemide (WHO No. 92, 148)—Phenylacetylurea.

Phenarsone sulphoxylate (WHO No. 124)—Sodium 3-amino-4-hydroxyphenyl-arsonate-N-methanal sulphoxylate.

Phenpromethamine (WHO No. 139)—N, beta-dimethylphenethylamine.

Phytomenadione (WHO No. 177)—2-Methyl-3-phytyl—1,4-naphthoquinone vitamin K_1.

Piperoxan hydrochloride—(WHO No. 149)—2-(1-Piperidylmethyl) 1,4-benzodioxan hydrochloride.

Probarbital sodium (WHO No. 145)—Sodium derivative of 5-ethyl-5-isopropyl-barbituric acid.

Pyroxylin (WHO No. 45)—Soluble guncotton.

Subathizone (WHO No. 98)—4-Ethylsulphonyl-benzaldehyde thiosemicarbazone.

Sulphisomidine (WHO No. 99)—2,4-Dimethyl-6-sulphanilamidopyrimidine.

Thiacetarsamide (WHO No. 37)—Disodium salt of p-bis-carboxymethylmercapto) arsinobenzamide.

Tocamphyl (WHO No. 42)—Diethanolamine salt of tolymethyl carbinolmono-D-camphoric acid ester.

Tuaminoheptane (WHO No. 140)—1-Methylhexylamine.

Mercurobutol — 4-Tert-butyl-2-chloromercuriphenol.

Phetenoin—5-Phenyl-5(2-thienyl) hydantoin.

Thiodiglycol—2,2-Dihhydroxyethyl sulphide.

Chemicals Supply Eases

—Continued from page 3

from Group 2 to Group 3 and the following twenty-seven are removed from Groups 2 and 3 as being in ample supply:—

From Group 2, high tenacity rayon cord, cord fabric and filament yarn. From Group 3, bentonite; celestite; ball and china clays; cotton linters (chemical grade); emery; Fuller's earth; garnet; hog bristles other than Chinese; level and tapered nylon monofilaments; pumice; pyrophyllite; five resins—copal, damar, elimi, kauri and sandarac; textile and fibers not elsewhere classified; topaz; tripoli, and bees candelilla and ouricury waxes.

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lump electric-fused, bgs., c.l., works	lb.	.44	—
5 tons, works	lb.	.44½	—
1 ton to 9,999 lbs., works	lb.	.45	—
500 lbs. to 1,999 lbs., works	lb.	.45½	—
lump, electric-fused, bgs., less than 500 lbs., works	lb.	.48	—
milled, electric-fused, bgs., c.l., works	lb.	.39	—
5 tons, works	lb.	.59½	—
1 ton to 9,999 lbs., works	lb.	.60	—
500 lbs. to 1,999 lbs., works	lb.	.60½	—
less than 500 lbs., works	lb.	.63	—
Oxychloride, cryst., ctns., 5 tons, works	lb	32¼	—

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